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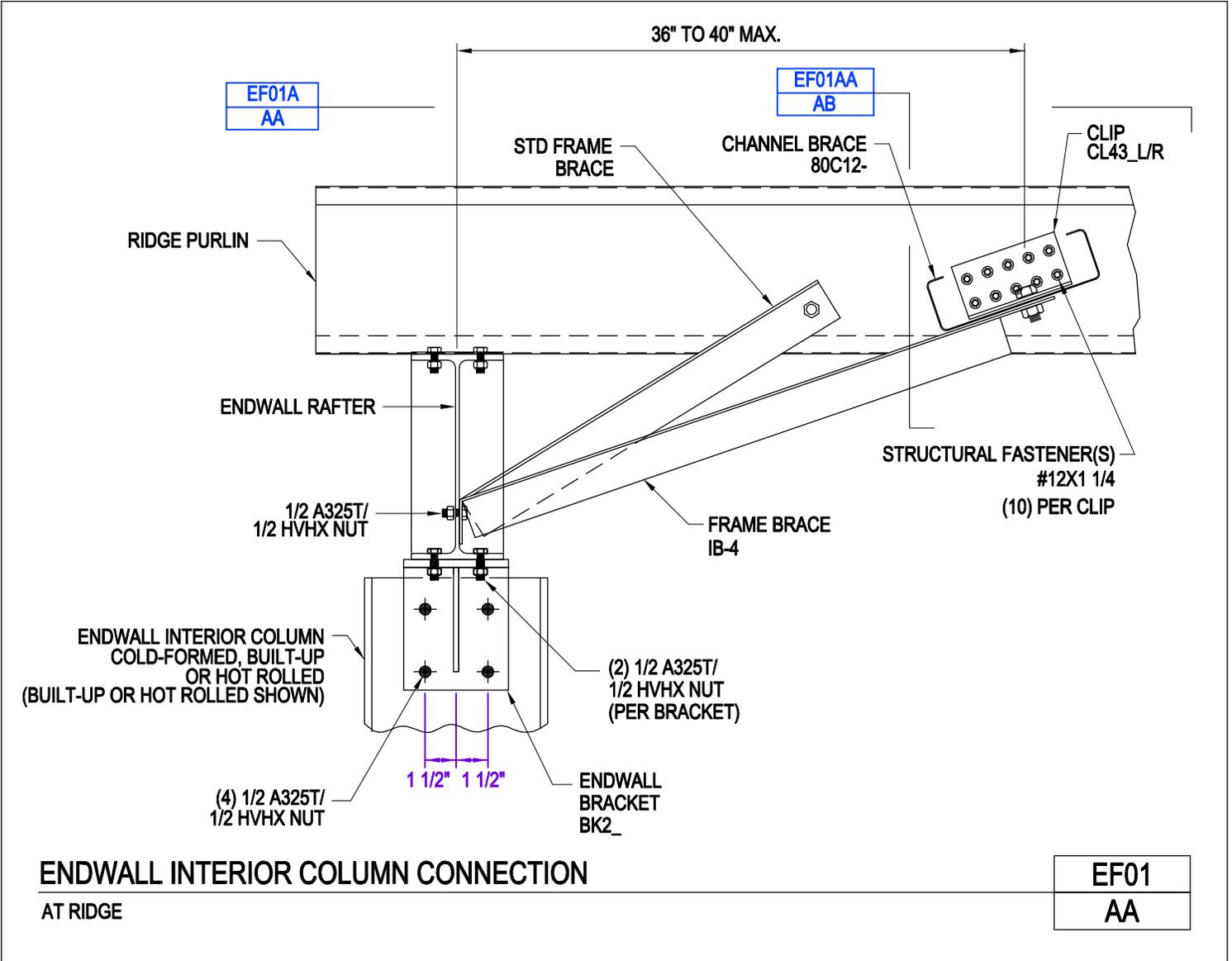
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Endwall Interior Column Connection

At Ridge

EF01/AA



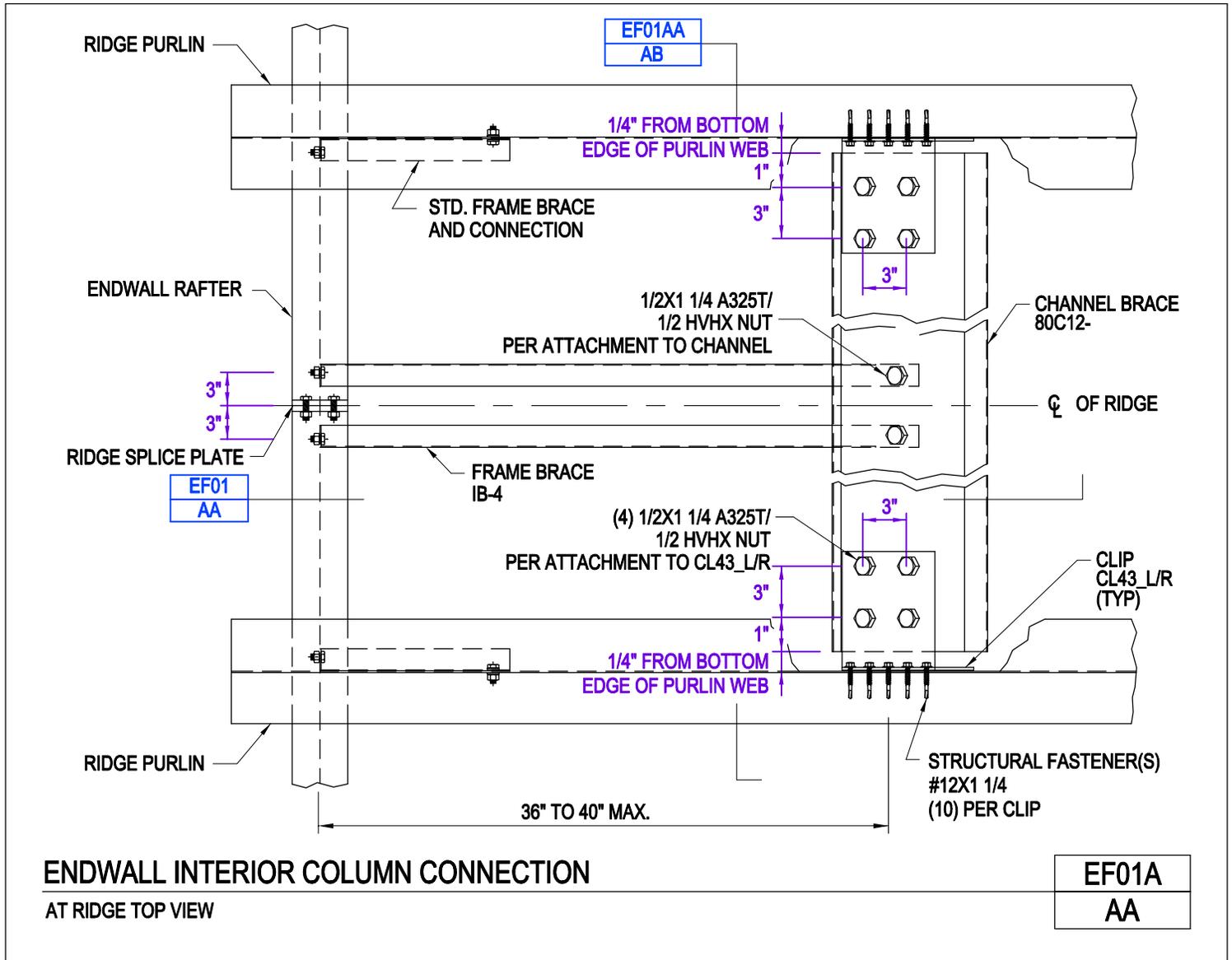
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Endwall Interior Column Connection

At Ridge Top View

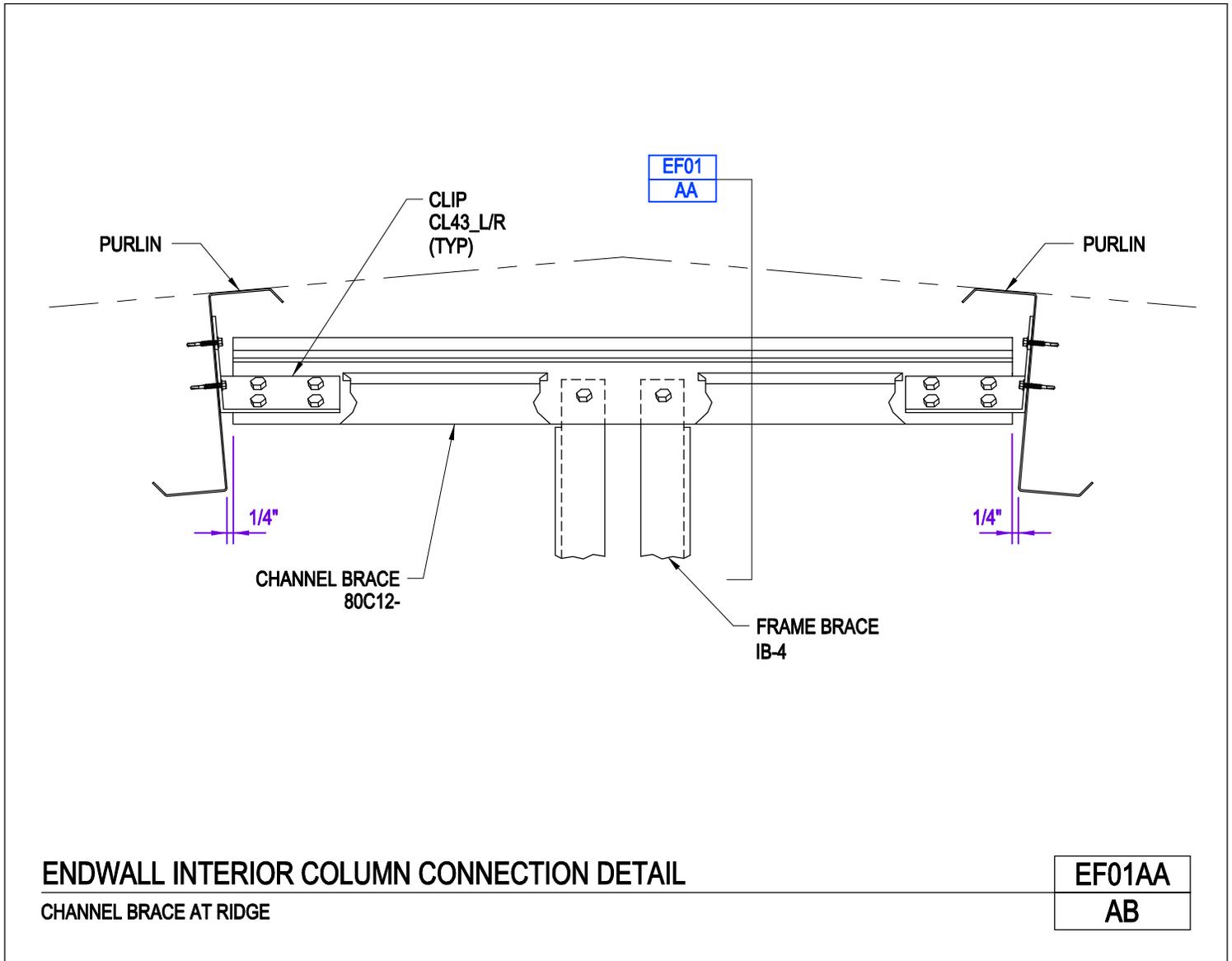
EF01A/AA



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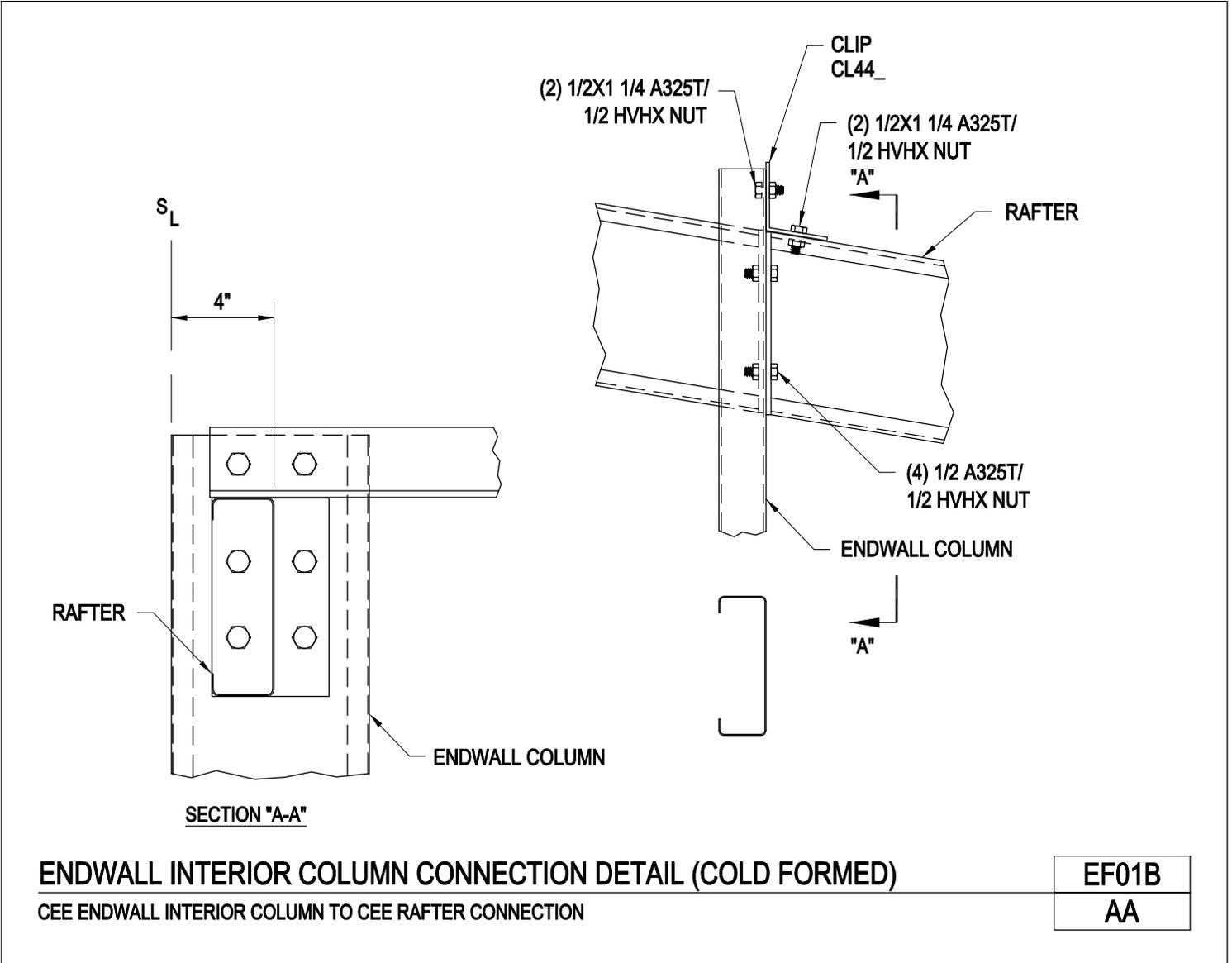
Endwall Interior Connection Detail
Channel Brace at Ridge
EF01AA/AB



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Endwall Interior Column Connection Detail (Cold Formed)
Cee Endwall Interior Column to Cee Rafter Connection
EF01B/AA



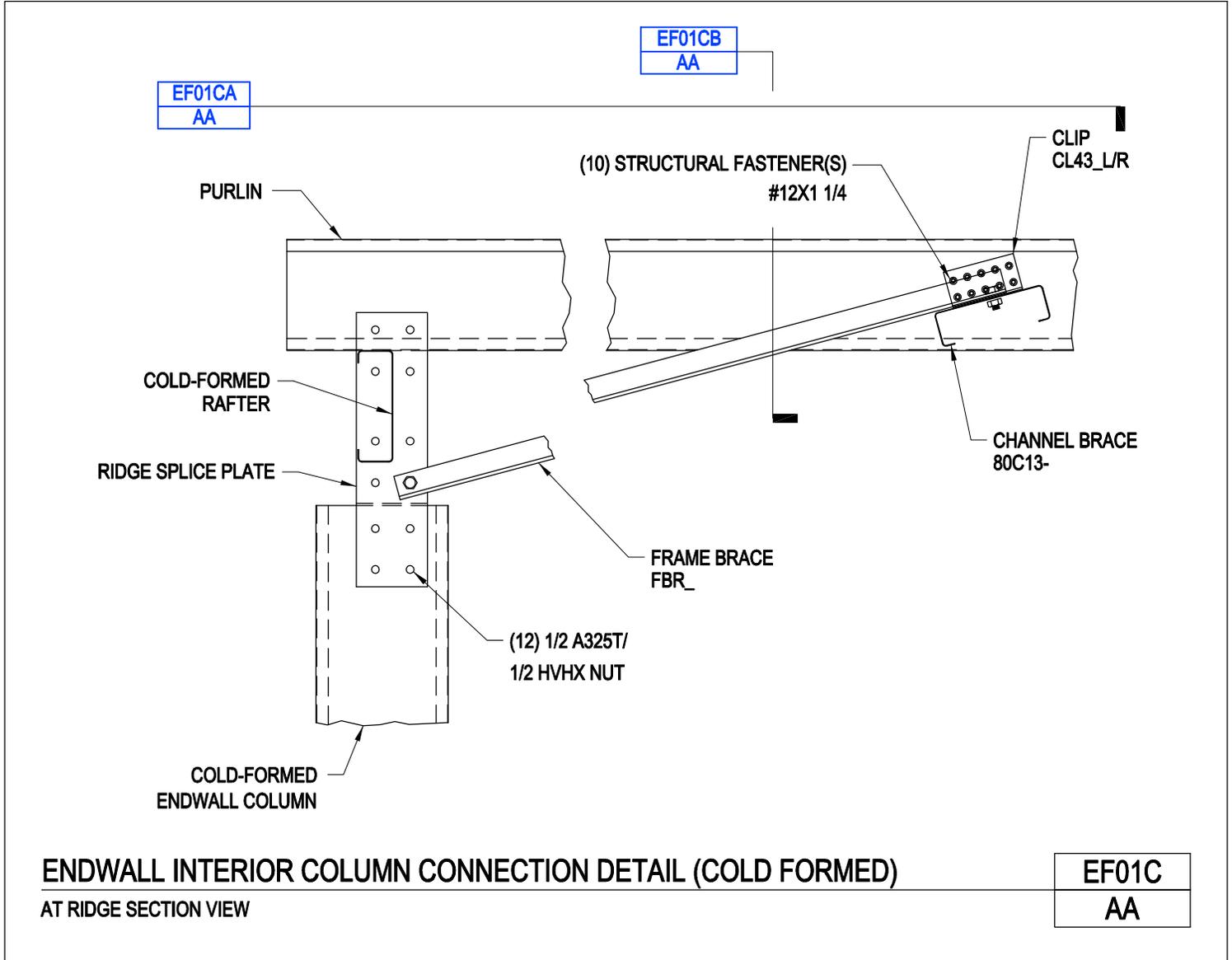
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Endwall Interior Column Connection Detail (Cold Formed)

At Ridge Section View

EF01C/AA



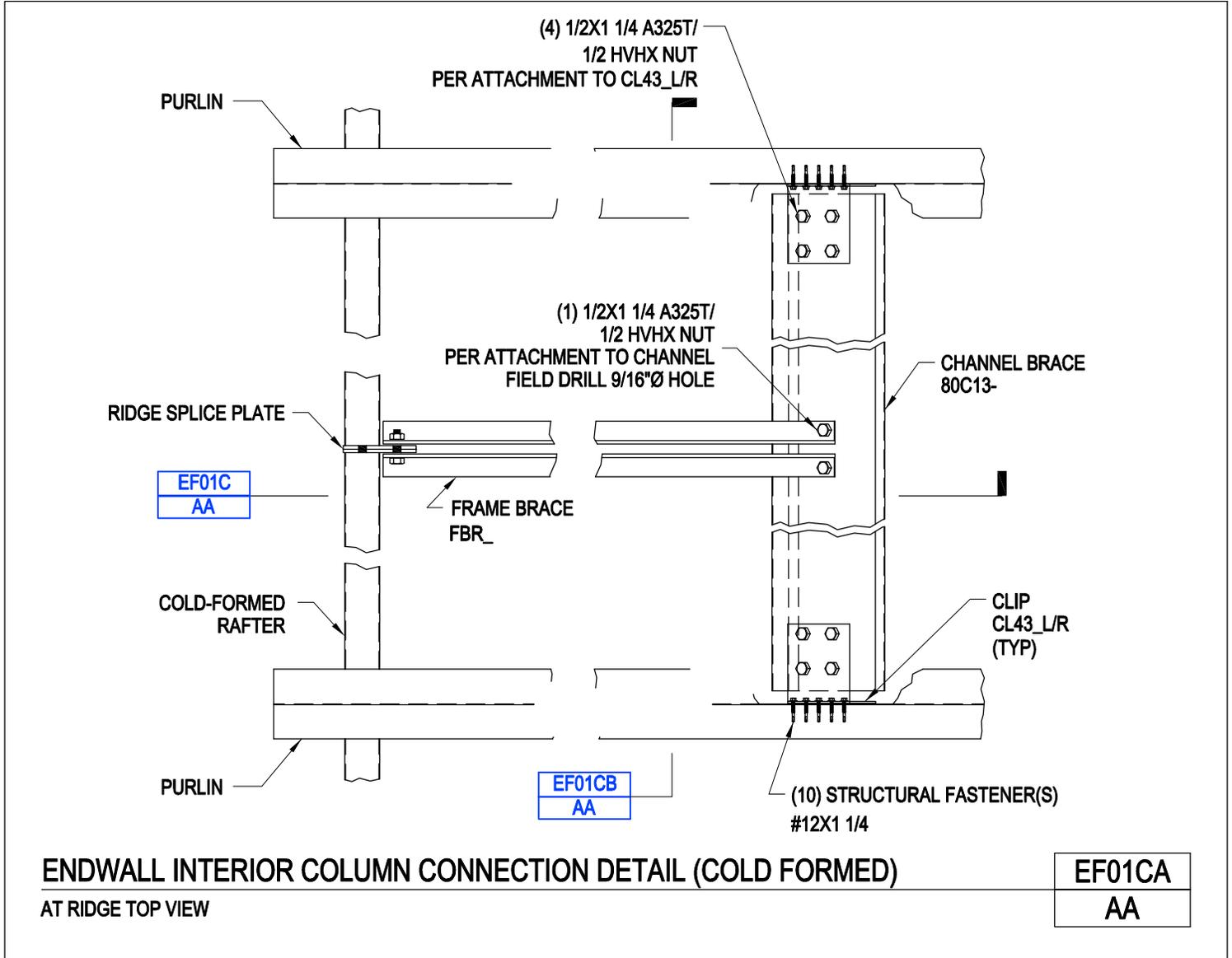
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Endwall Interior Column Connection Detail (Cold Formed)

At Ridge Top View

EF01CA/AA



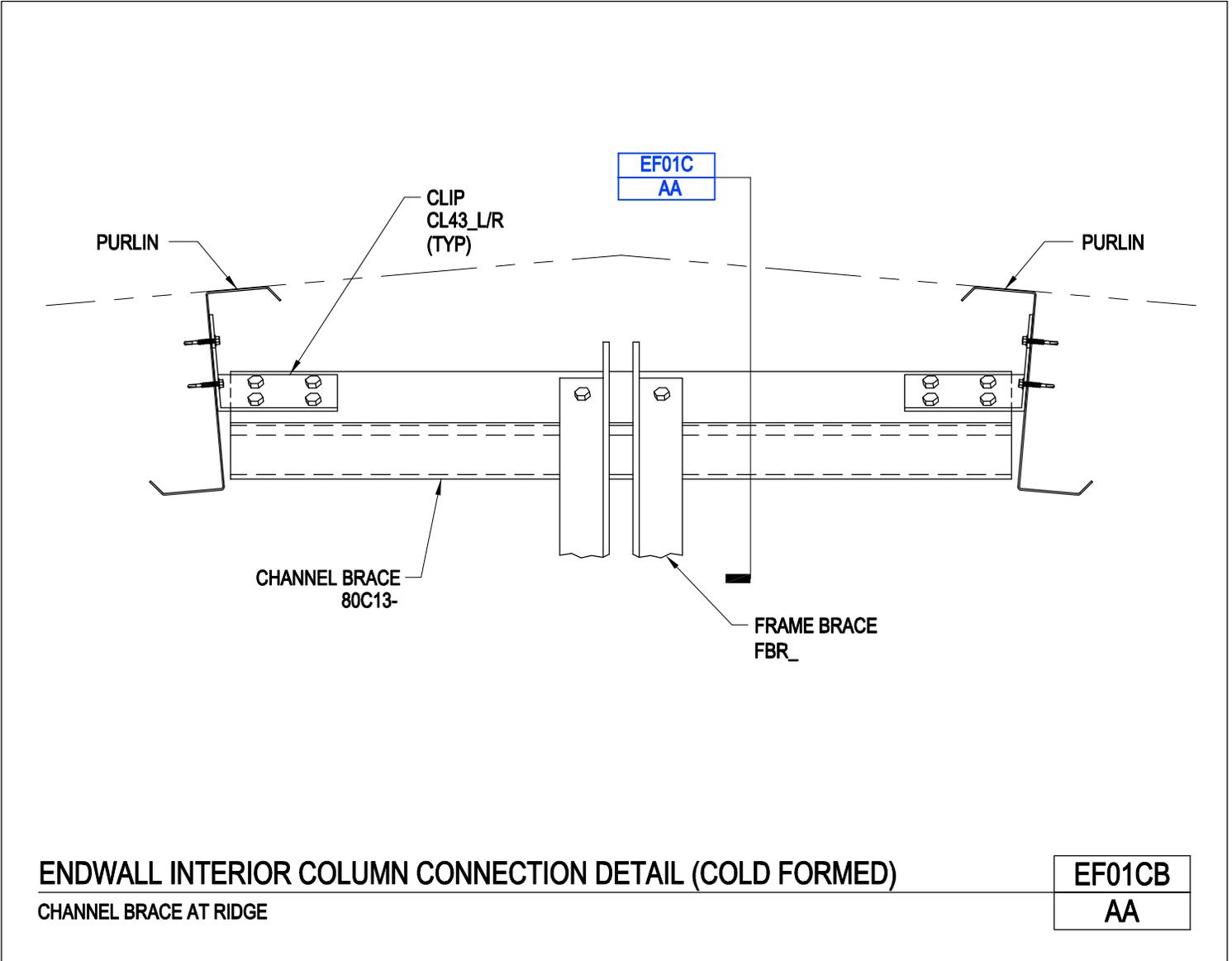
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Endwall Interior Column Connection Detail (Cold Formed)

Channel Brace at Ridge

EF01CB/AA



ENDWALL INTERIOR COLUMN CONNECTION DETAIL (COLD FORMED)

CHANNEL BRACE AT RIDGE

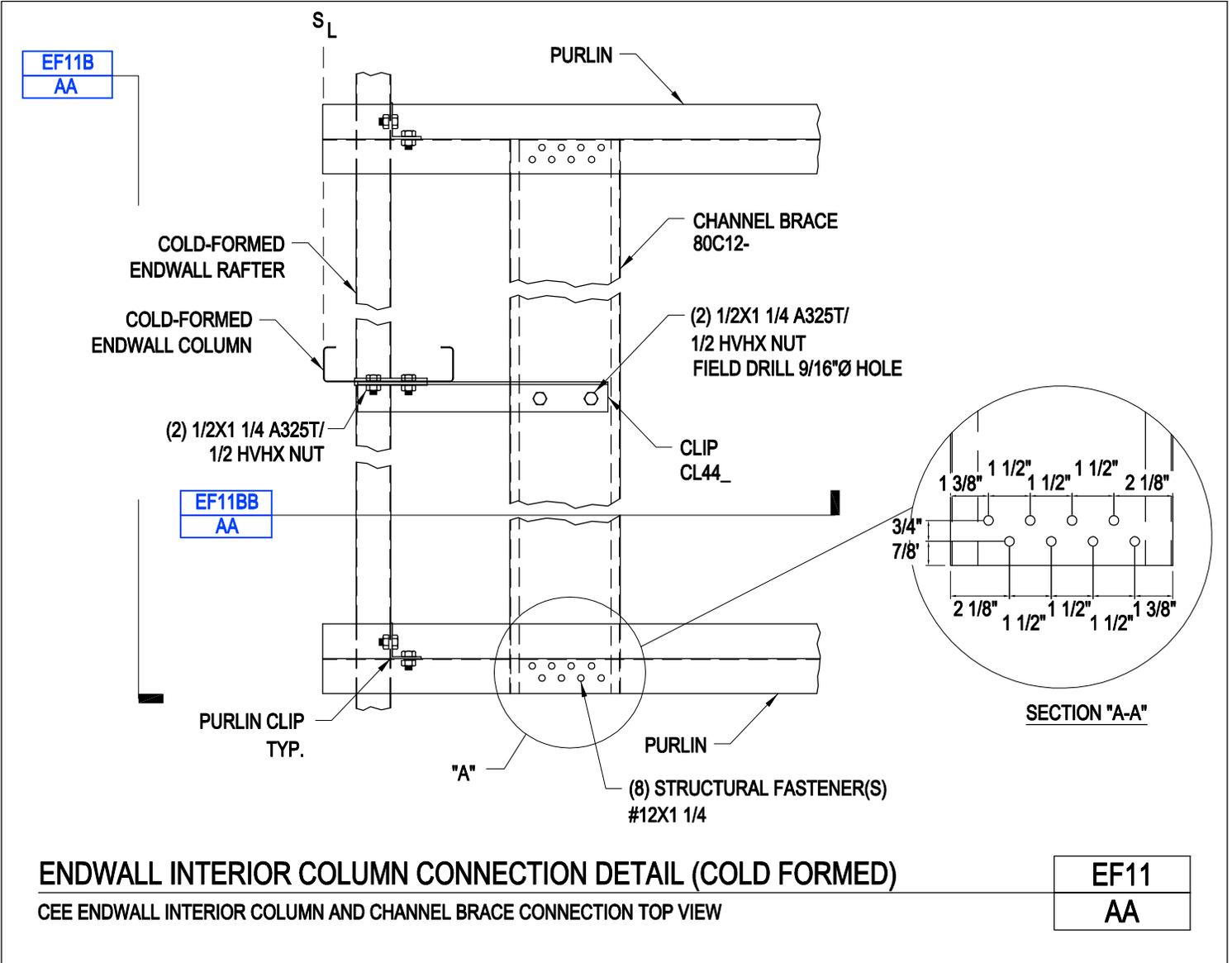
EF01CB

AA

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Endwall Interior Column Connection Detail (Cold Formed)
 Cee Endwall Interior Column and Channel Brace Connection Top View
 EF11/AA



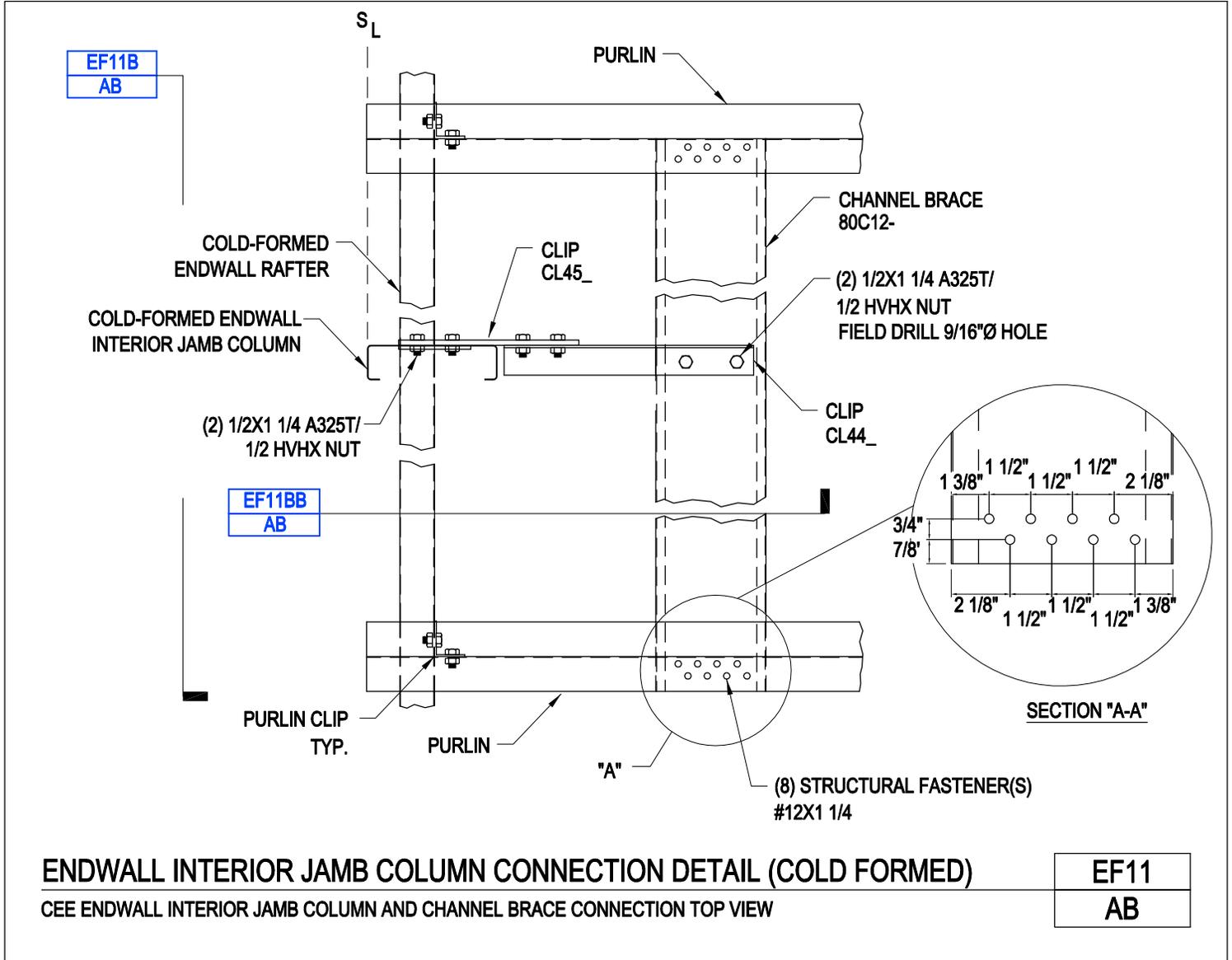
ENDWALL INTERIOR COLUMN CONNECTION DETAIL (COLD FORMED)
 CEE ENDWALL INTERIOR COLUMN AND CHANNEL BRACE CONNECTION TOP VIEW

| |
|------|
| EF11 |
| AA |

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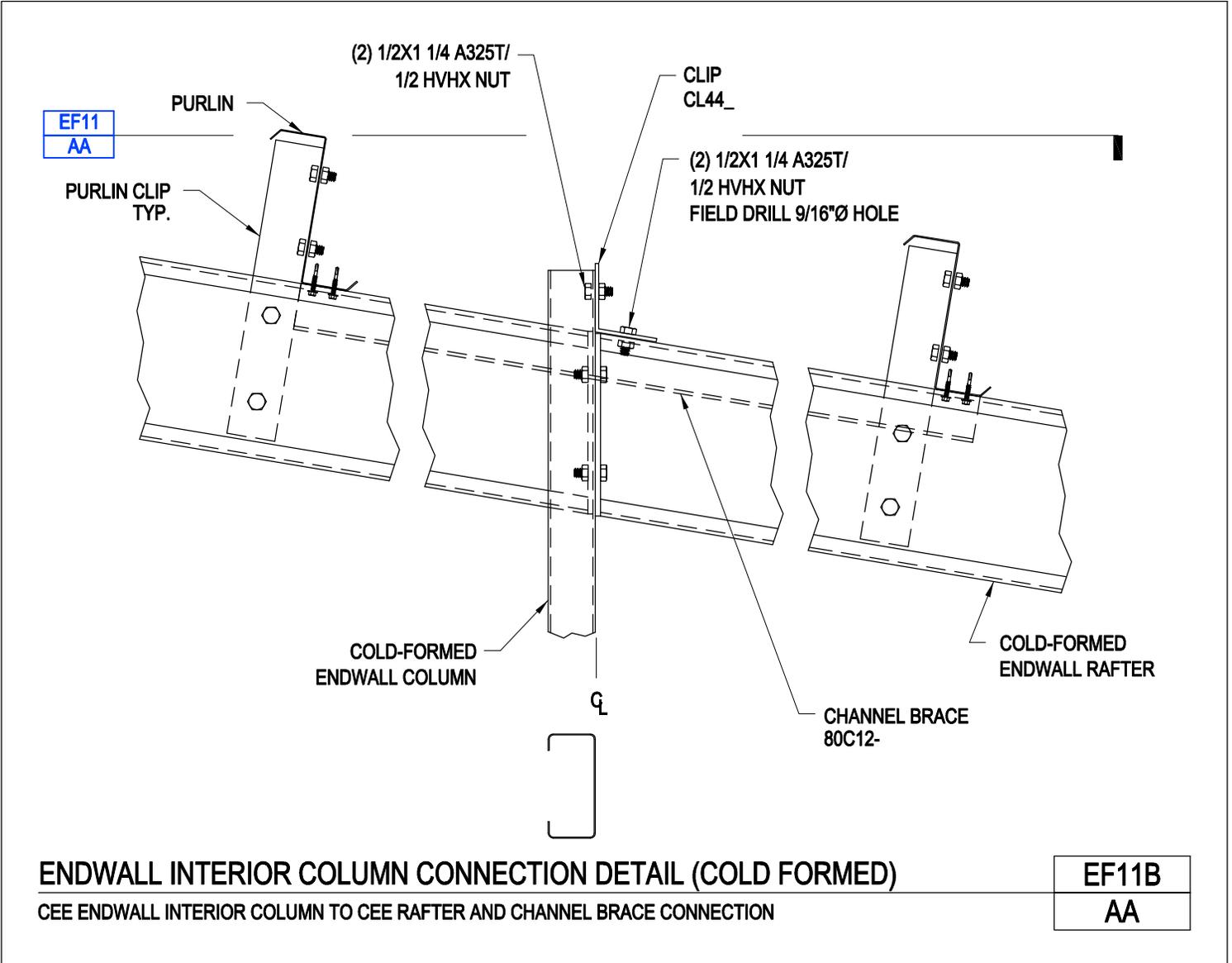
Endwall Interior Jamb Column Connection Detail (Cold Formed)
 Cee Endwall Interior Jamb Column and Channel Brace Connection Top View
 EF11/AB



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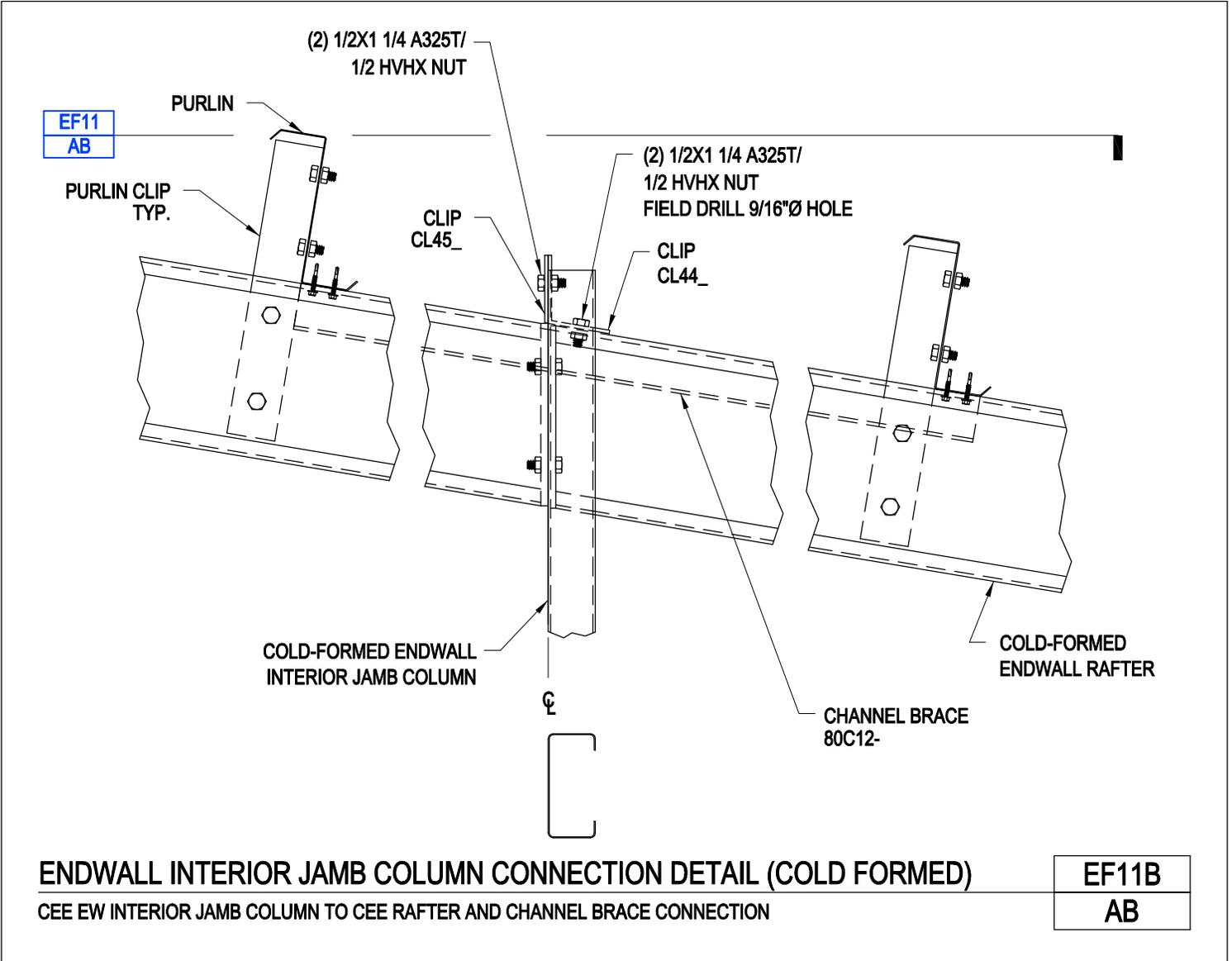
Endwall Interior Column Connection Detail (Cold Formed)
 Cee Endwall Interior Column to Cee Rafter and Channel Brace Connection
 EF11B/AA



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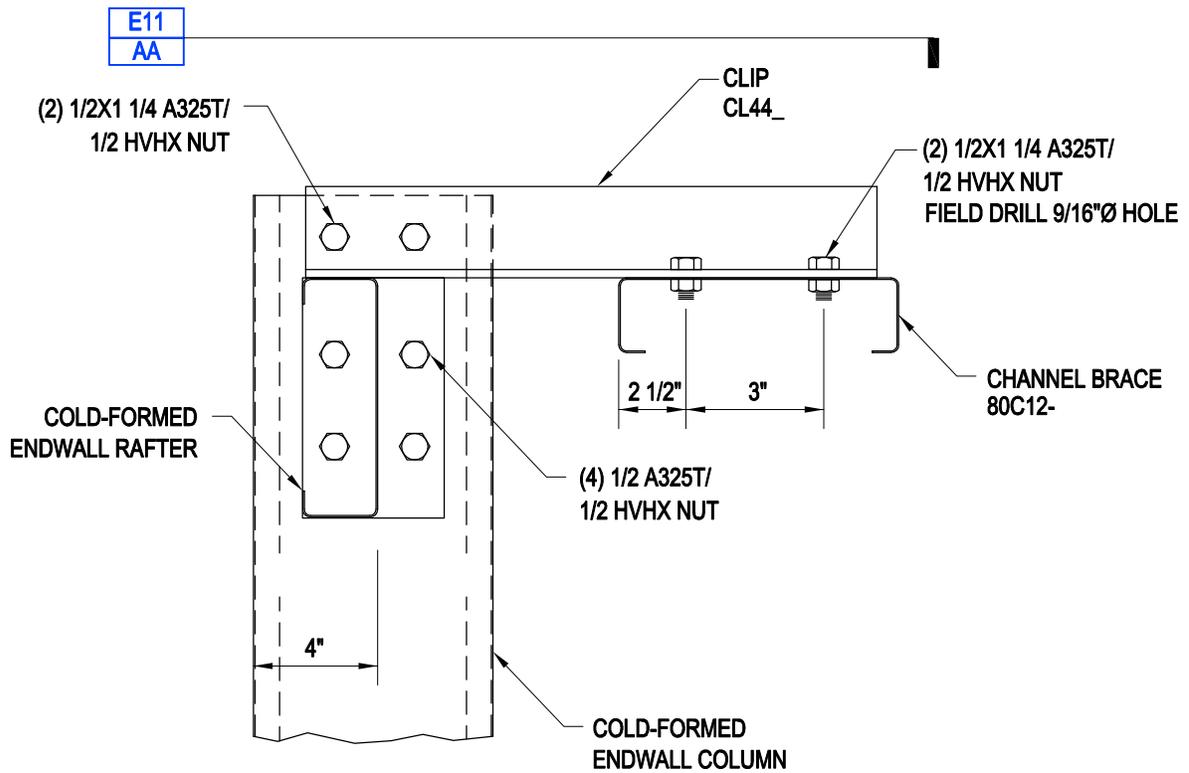
Endwall Interior Jamb Column Connection Detail (Cold Formed)
 Cee EW Interior Jamb Column to Cee Rafter and Channel Brace Connection
 EF11B/AB



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Endwall Interior Column Connection Detail (Cold Formed)
 Cee Endwall Interior Column to Cee Rafter and Channel Brace Connection
 EF11BB/AA



ENDWALL INTERIOR COLUMN CONNECTION DETAIL (COLD FORMED)

CEE ENDWALL INTERIOR COLUMN TO CEE RAFTER AND CHANNEL BRACE CONNECTION

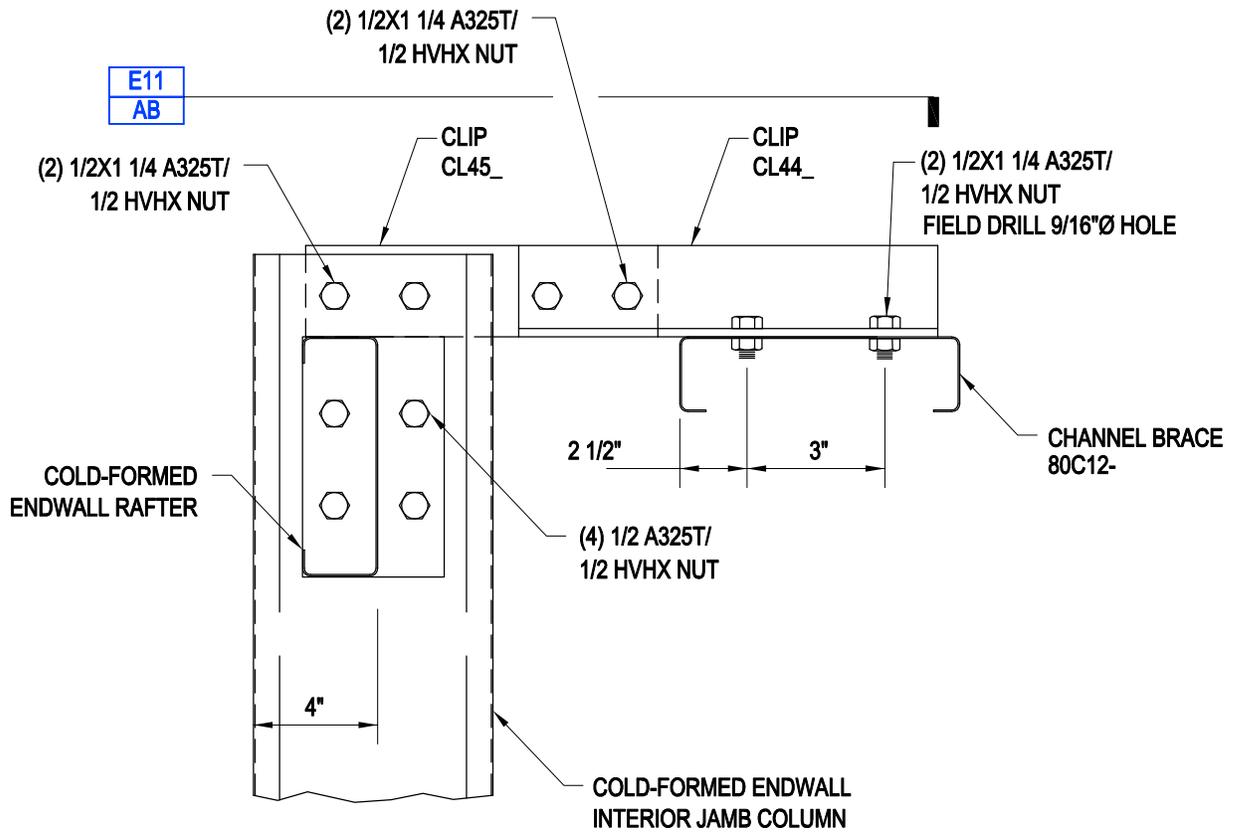
EF11BB

AA

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Endwall Interior Column Connection Detail (Cold Formed)
 Cee Endwall Interior Column to Cee Rafter and Channel Brace Connection
 EF11BB/AB



ENDWALL INTERIOR COLUMN CONNECTION DETAIL (COLD FORMED)

CEE ENDWALL INTERIOR COLUMN TO CEE RAFTER AND CHANNEL BRACE CONNECTION

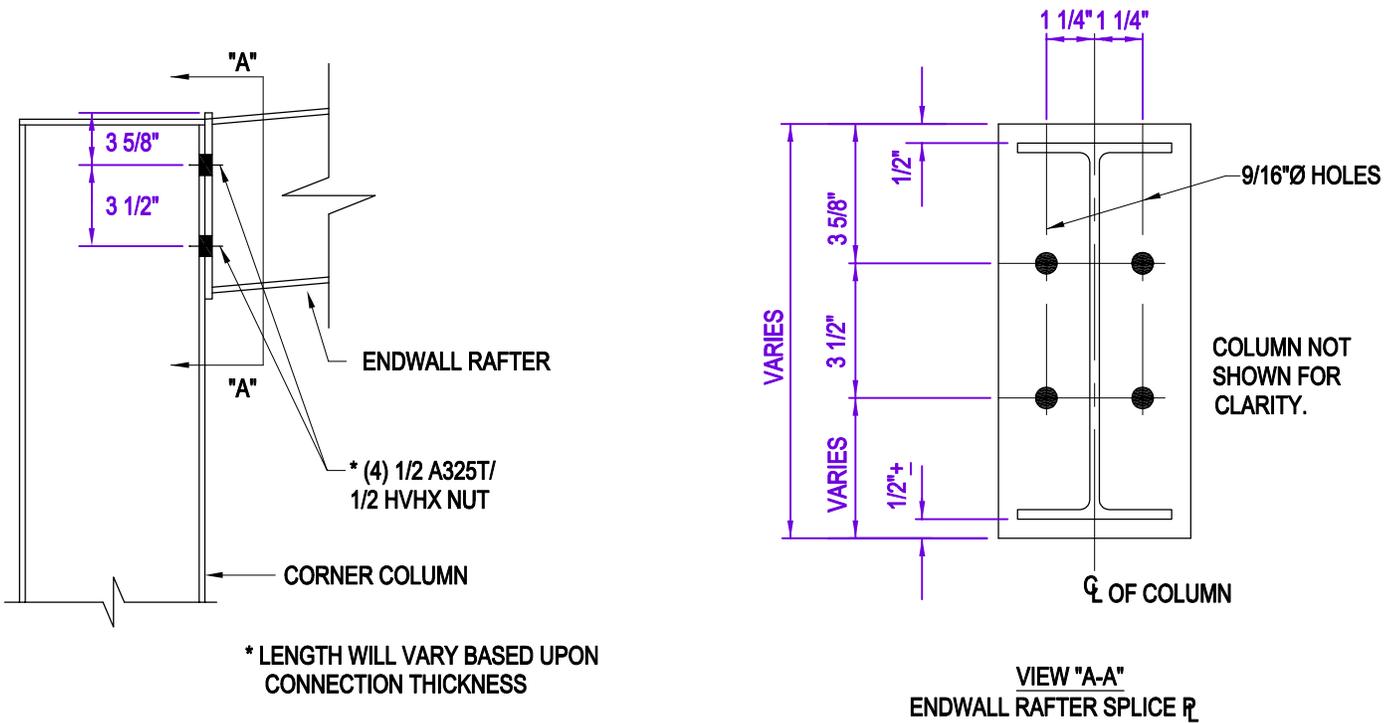
EF11BB

AB

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Corner Column Connection Detail at Bldg. Eave
 Column to Rafter Connection
 EF12/AA



SAFETY PRECAUTION:
 STAY WELL IN THE CLEAR OF LOADS
 BEING MOVED BY ANY TYPE LIFTING
 DEVICE. BE SURE TO KEEP HANDS
 AND FEET CLEAR OF MOVING LOADS.

CORNER COLUMN CONNECTION DETAIL AT BLDG. EAVE
 COLUMN TO RAFTER CONNECTION

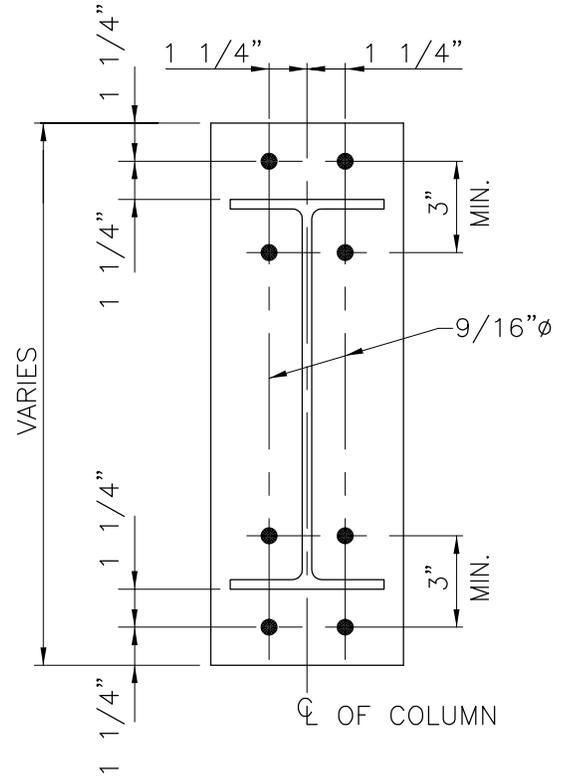
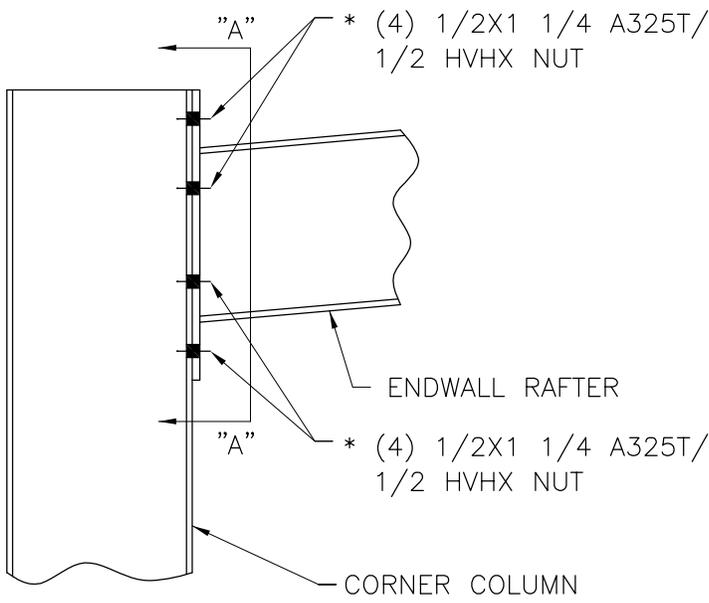
| |
|------|
| EF12 |
| AA |

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Corner Column Conn. Detail at Bldg. Eave - Bearing Frame
 Column to Rafter Connection 1/2" Bolts
 EF12A/AA

SAFETY PRECAUTION:
 STAY WELL IN THE CLEAR OF LOADS BEING MOVED BY ANY TYPE LIFTING DEVICE. BE SURE TO KEEP HANDS AND FEET CLEAR OF MOVING LOADS.



VIEW "A-A"
 ENDWALL RAFTER SPLICE ϕ

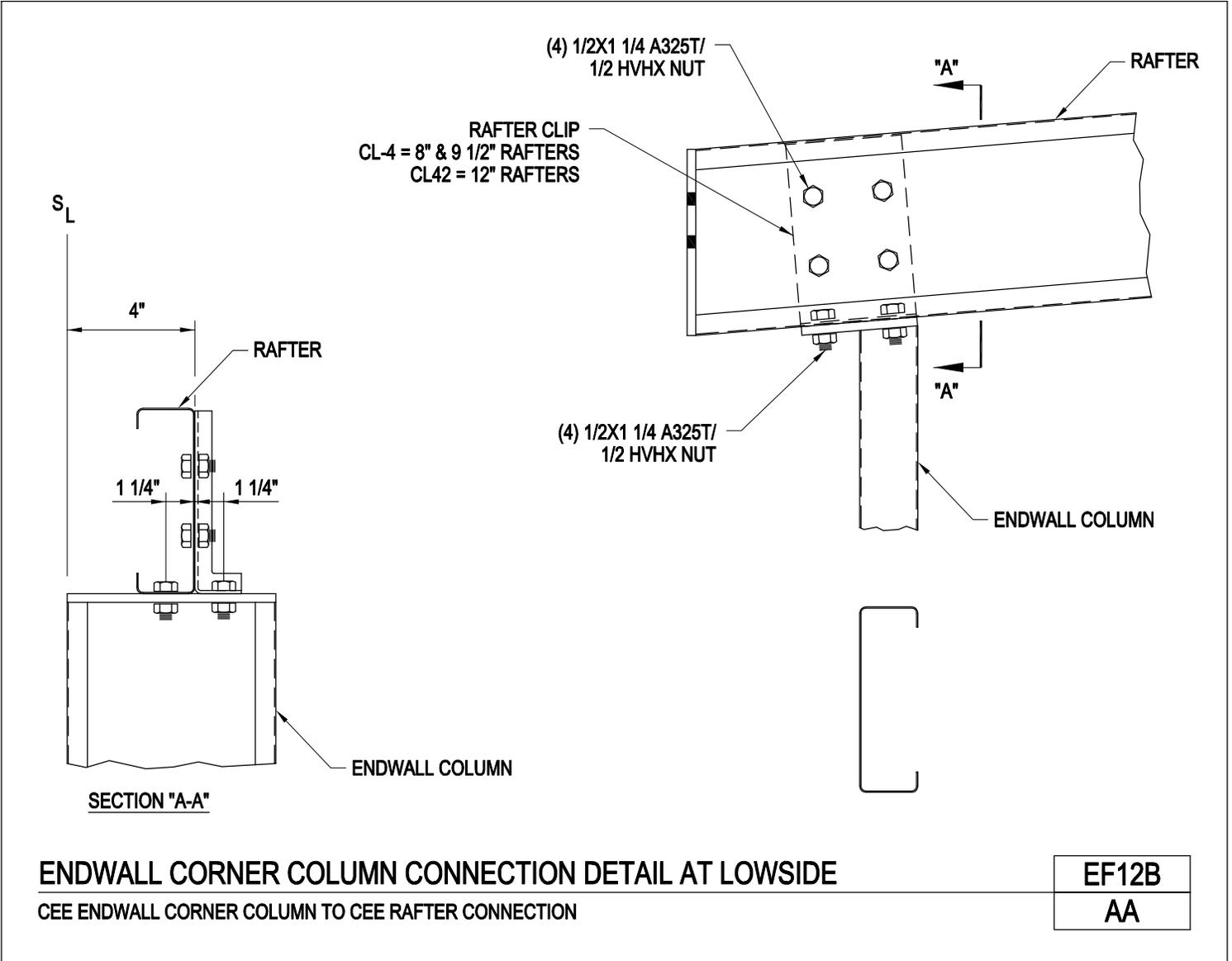
* LENGTH WILL VARY BASED UPON CONNECTION THICKNESS

| | |
|----------------------------------------------------------|-------|
| CORNER COLUMN CONN. DETAIL AT BLDG. EAVE – BEARING FRAME | EF12A |
| COLUMN TO RAFTER CONNECTION – 1/2" ϕ BOLTS | AA |

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Endwall Corner Column Connection Detail at Lowside
 Cee Endwall Corner Column to Cee Rafter Connection
 EF12B/AA

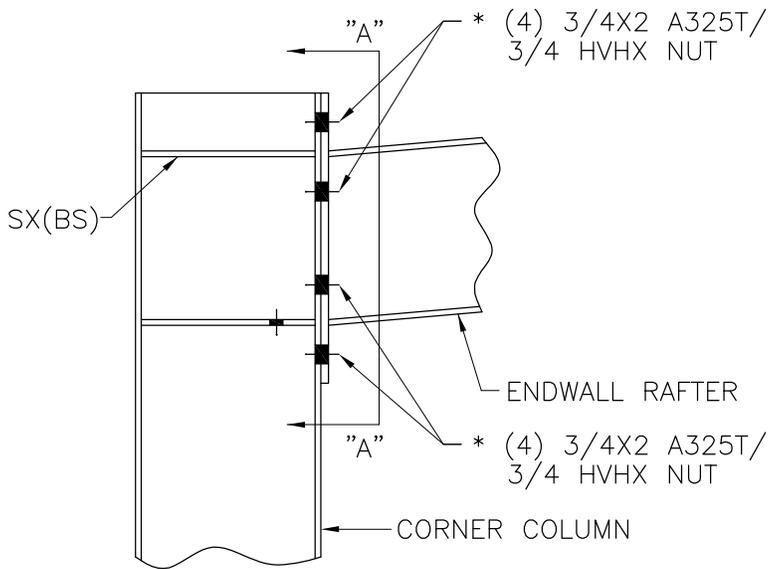


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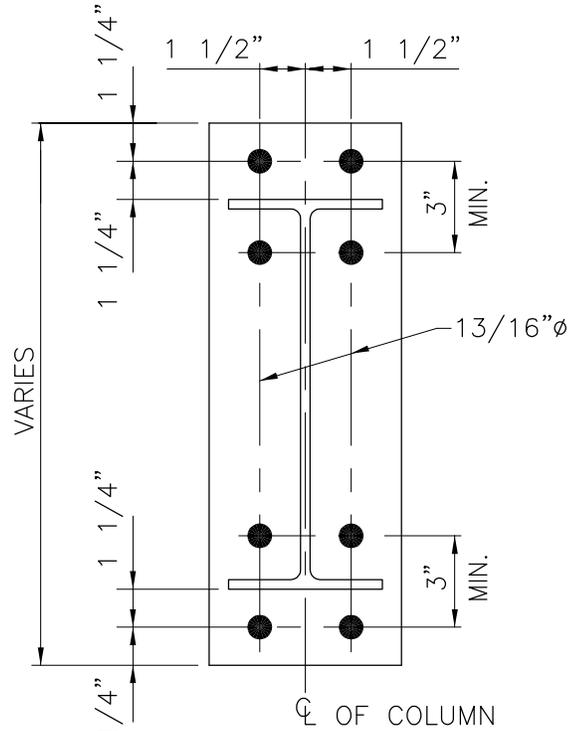
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Corner Column Conn. Detail at Bldg. Eave - Bearing Frame
 Column to Rafter Connection - 3/4" Bolts
 EF12X/AA

SAFETY PRECAUTION:
 STAY WELL IN THE CLEAR OF LOADS
 BEING MOVED BY ANY TYPE LIFTING
 DEVICE. BE SURE TO KEEP HANDS
 AND FEET CLEAR OF MOVING LOADS.



* LENGTH WILL VARY BASED UPON
 CONNECTION THICKNESS



VIEW "A-A"
 ENDWALL RAFTER SPLICE P

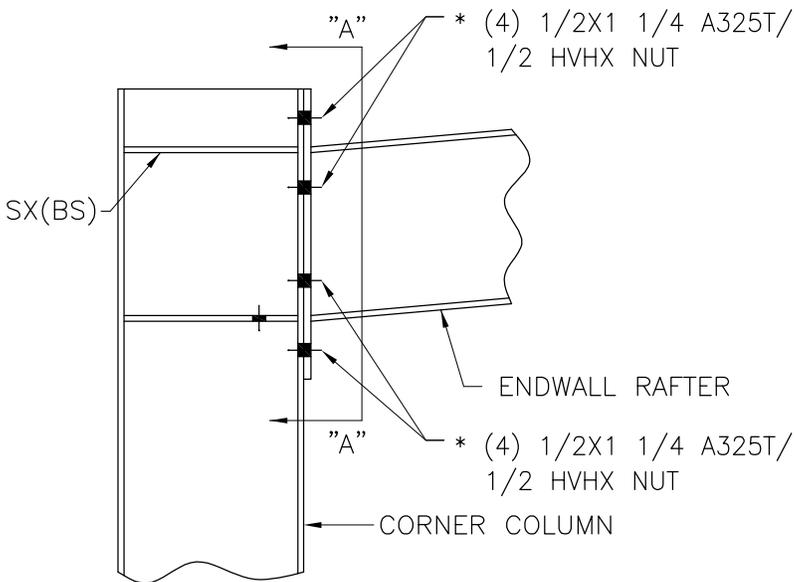
CORNER COLUMN CONN. DETAIL AT BLDG. EAVE - BEARING FRAME
 COLUMN TO RAFTER CONNECTION - 3/4"ø BOLTS

| |
|-------|
| EF12X |
| AA |

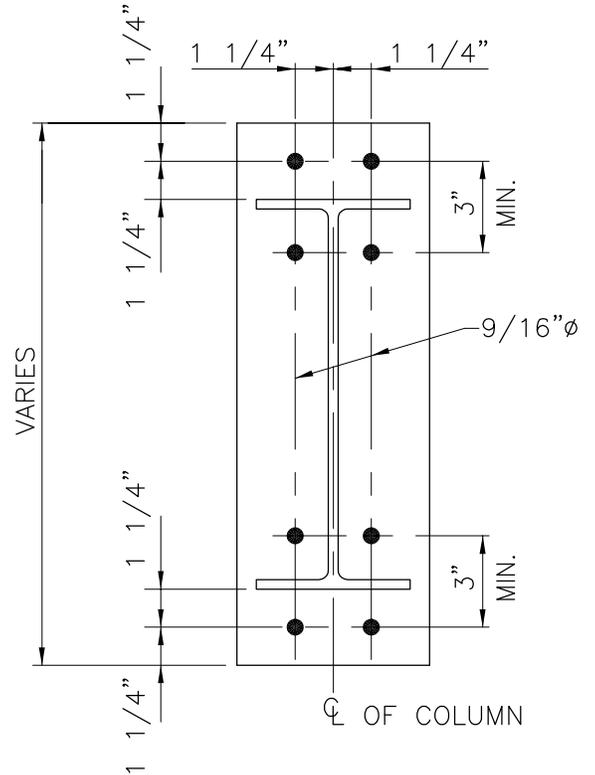
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Corner Column Conn. Detail at Bldg. Eave - Bearing Frame
 Column w/ Stiffener to Rafter Connection - 1/2" Bolts
 EF12Y/AA

SAFETY PRECAUTION:
 STAY WELL IN THE CLEAR OF LOADS
 BEING MOVED BY ANY TYPE LIFTING
 DEVICE. BE SURE TO KEEP HANDS
 AND FEET CLEAR OF MOVING LOADS.



* LENGTH WILL VARY BASED UPON
 CONNECTION THICKNESS



VIEW "A-A"
 ENDWALL RAFTER SPLICE P

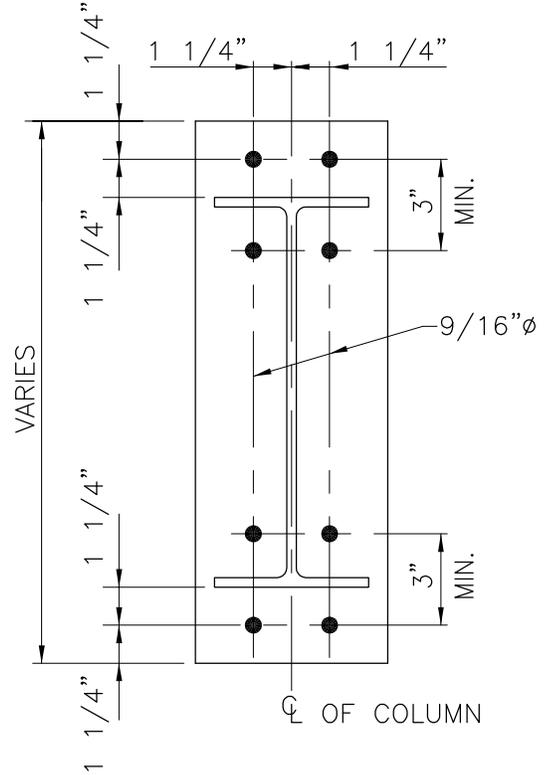
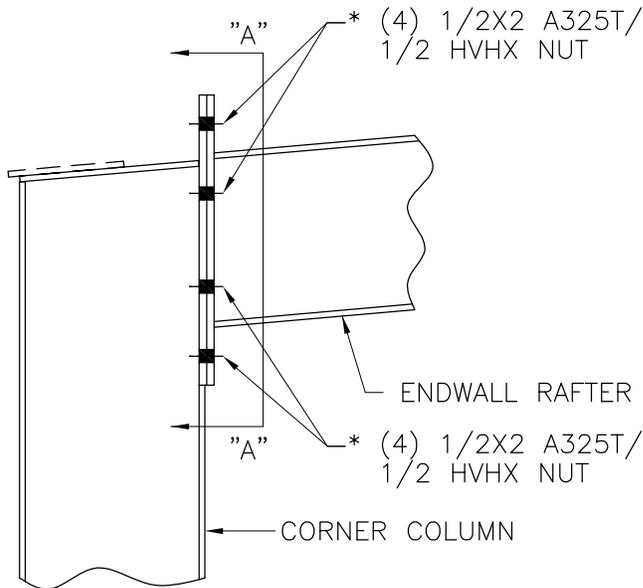
CORNER COLUMN CONN. DETAIL AT BLDG. EAVE – BEARING FRAME
 COLUMN W/STIFFENERS TO RAFTER CONNECTION – 1/2"∅ BOLTS

| |
|-------|
| EF12Y |
| AA |

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Corner Column Conn. Detail at Bldg. Eave - Bearing Frame
 Column to Rafter Connection - 1/2" Bolts
 EF13A/AA

SAFETY PRECAUTION:
 STAY WELL IN THE CLEAR OF LOADS
 BEING MOVED BY ANY TYPE LIFTING
 DEVICE. BE SURE TO KEEP HANDS
 AND FEET CLEAR OF MOVING LOADS.



VIEW "A-A"
 ENDWALL RAFTER SPLICE R

* LENGTH WILL VARY BASED UPON
 CONNECTION THICKNESS

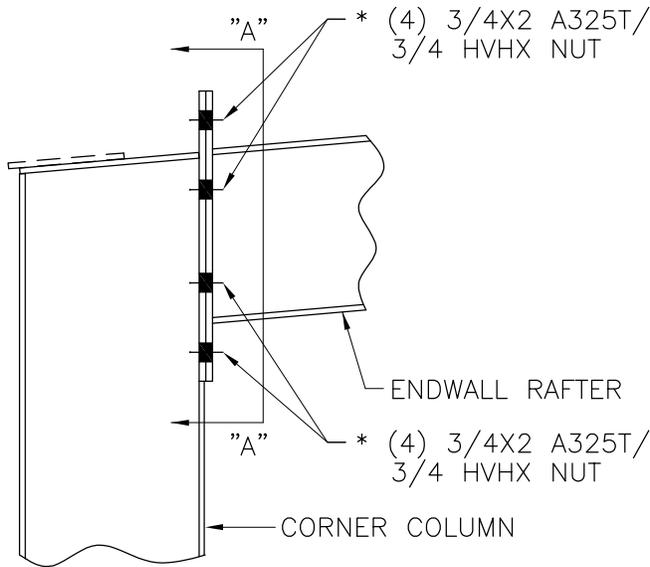
CORNER COLUMN CONN. DETAIL AT BLDG. EAVE – BEARING FRAME
 COLUMN TO RAFTER CONNECTION – 1/2" ϕ BOLTS

| |
|-------|
| EF13A |
| AA |

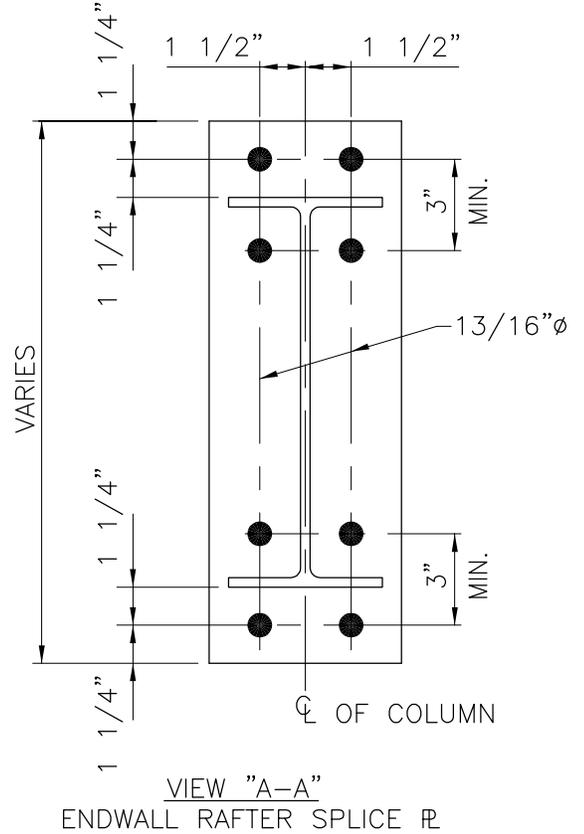
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Corner Column Conn. Detail at Bldg. Eave - Bearing Frame
 Column to Rafter Connection - 3/4" Bolts
 EF13X/AA

SAFETY PRECAUTION:
 STAY WELL IN THE CLEAR OF LOADS
 BEING MOVED BY ANY TYPE LIFTING
 DEVICE. BE SURE TO KEEP HANDS
 AND FEET CLEAR OF MOVING LOADS.



* LENGTH WILL VARY BASED UPON
 CONNECTION THICKNESS

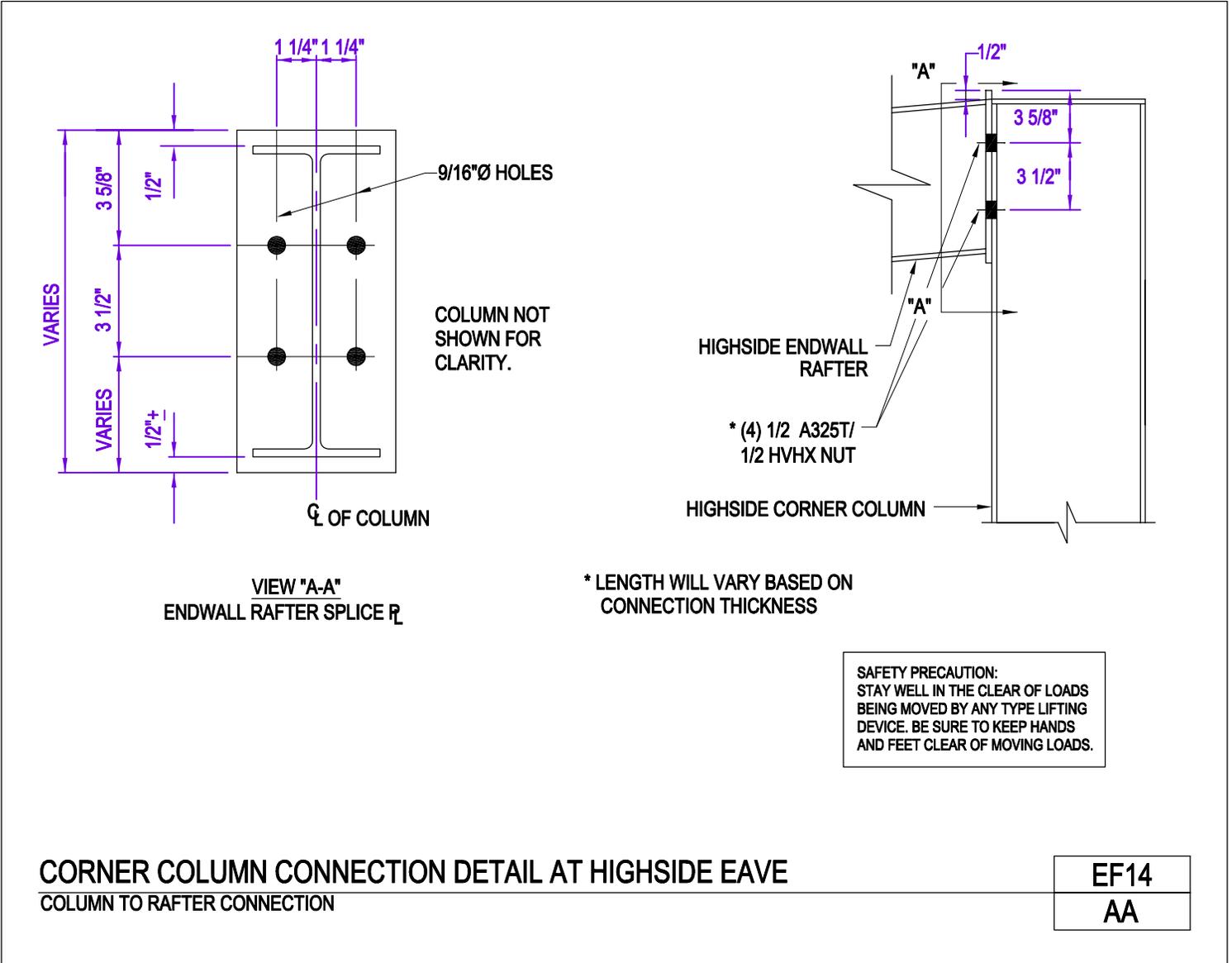


CORNER COLUMN CONN. DETAIL AT BLDG. EAVE - BEARING FRAME
 COLUMN TO RAFTER CONNECTION - 3/4" ϕ BOLTS

| |
|-------|
| EF13X |
| AA |

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Corner Connection Detail at Highside Eave
 Column to Rafter Connection
 EF14/AA



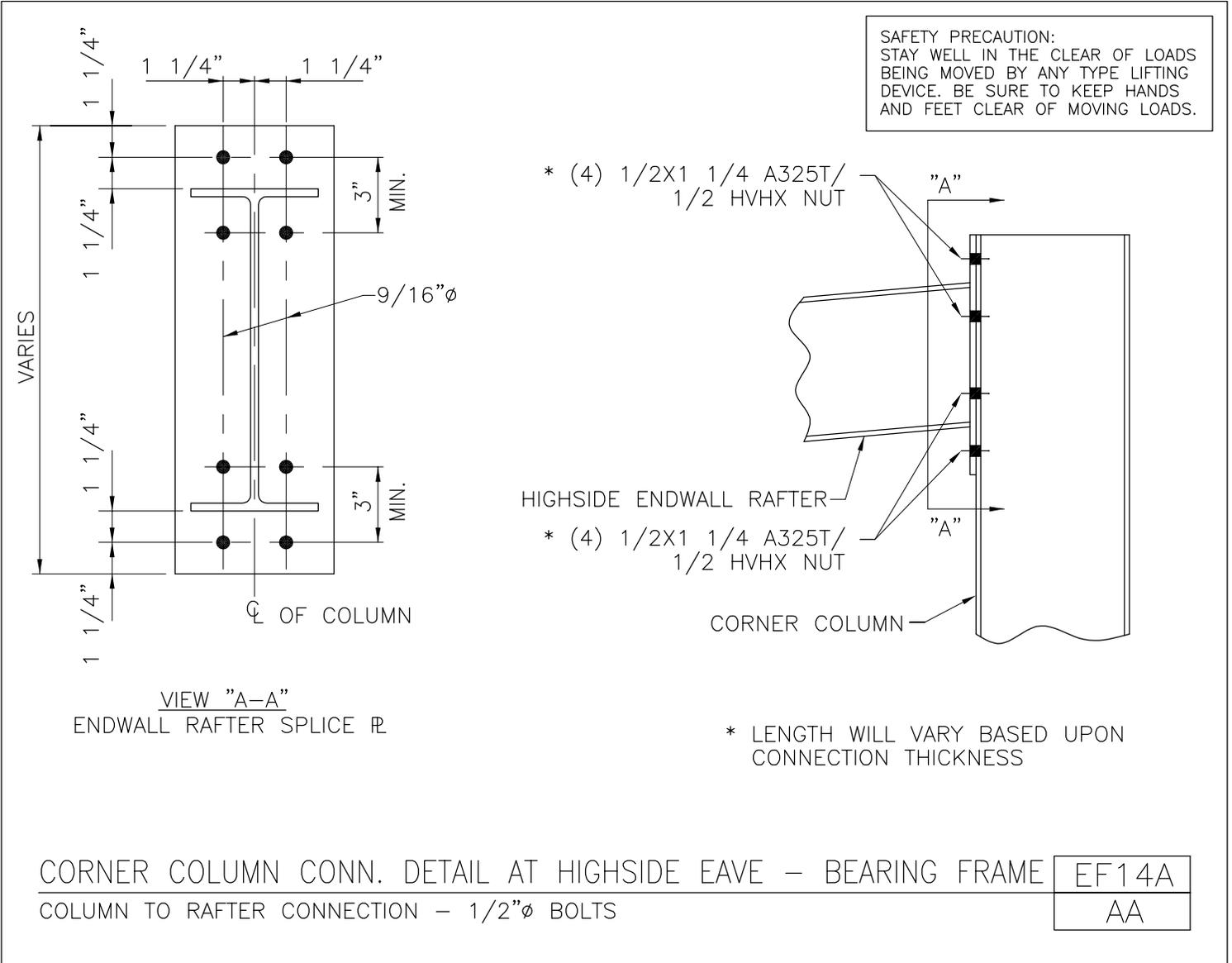
CORNER COLUMN CONNECTION DETAIL AT HIGHSIDE EAVE
 COLUMN TO RAFTER CONNECTION

| |
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| EF14 |
| AA |

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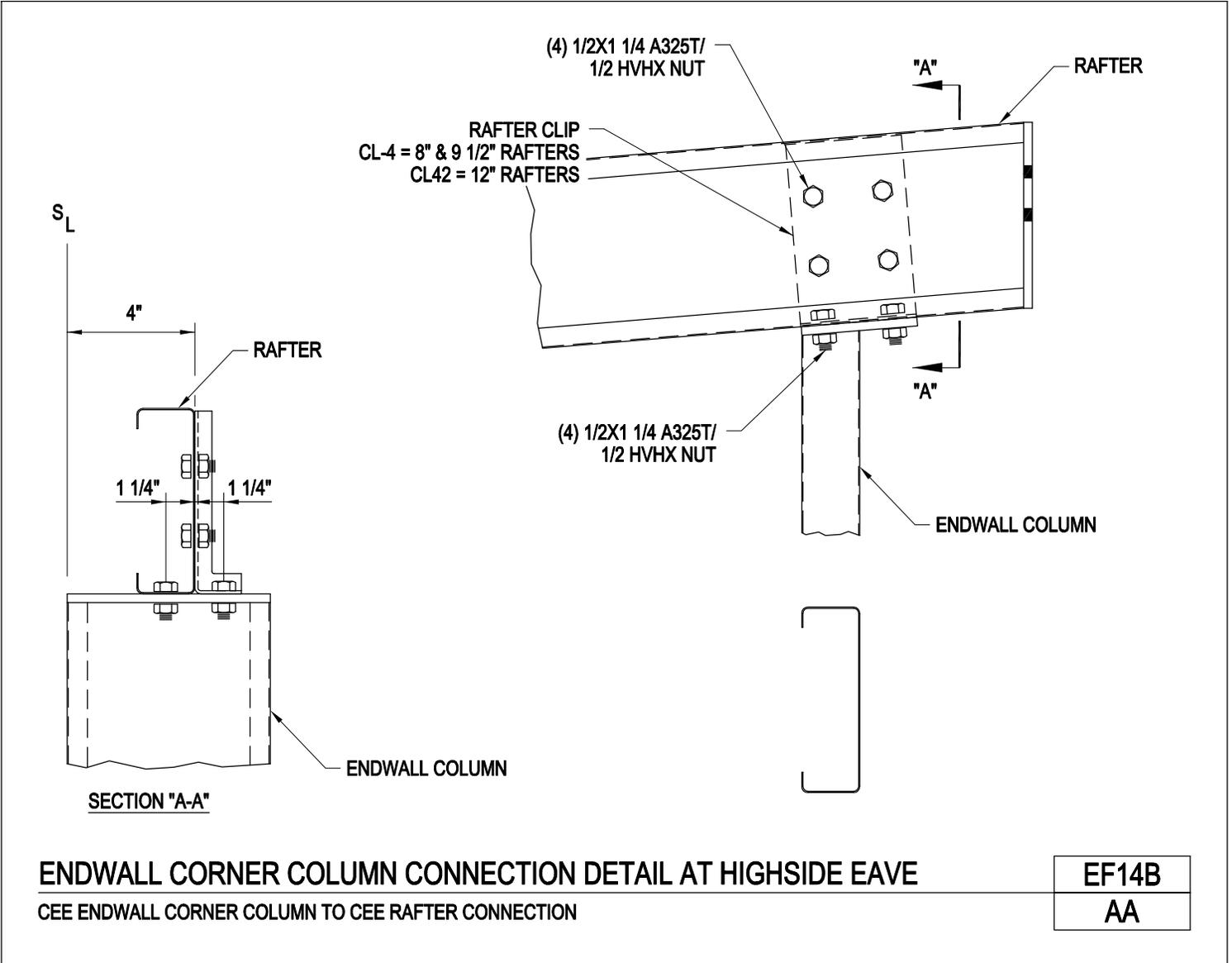
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Corner Column Conn. Detail at Highside Eave - Bearing Frame
 Column to Rafter Connection - 1/2" Bolts
 EF14A/AA



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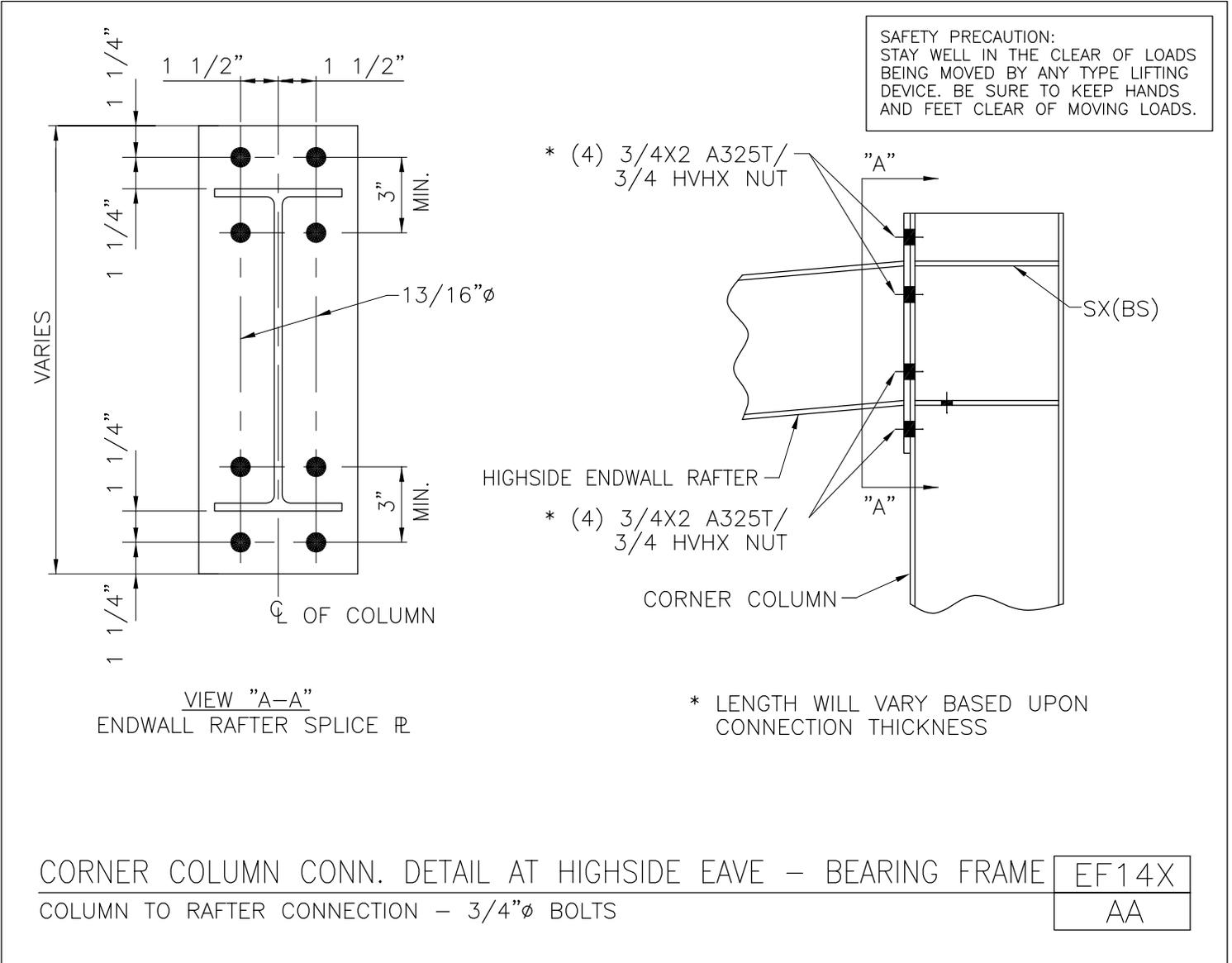
Endwall Corner Column Connection Detail at Highside Eave
 Cee Endwall Corner Column to Cee Rafter Connection
 EF14B/AA



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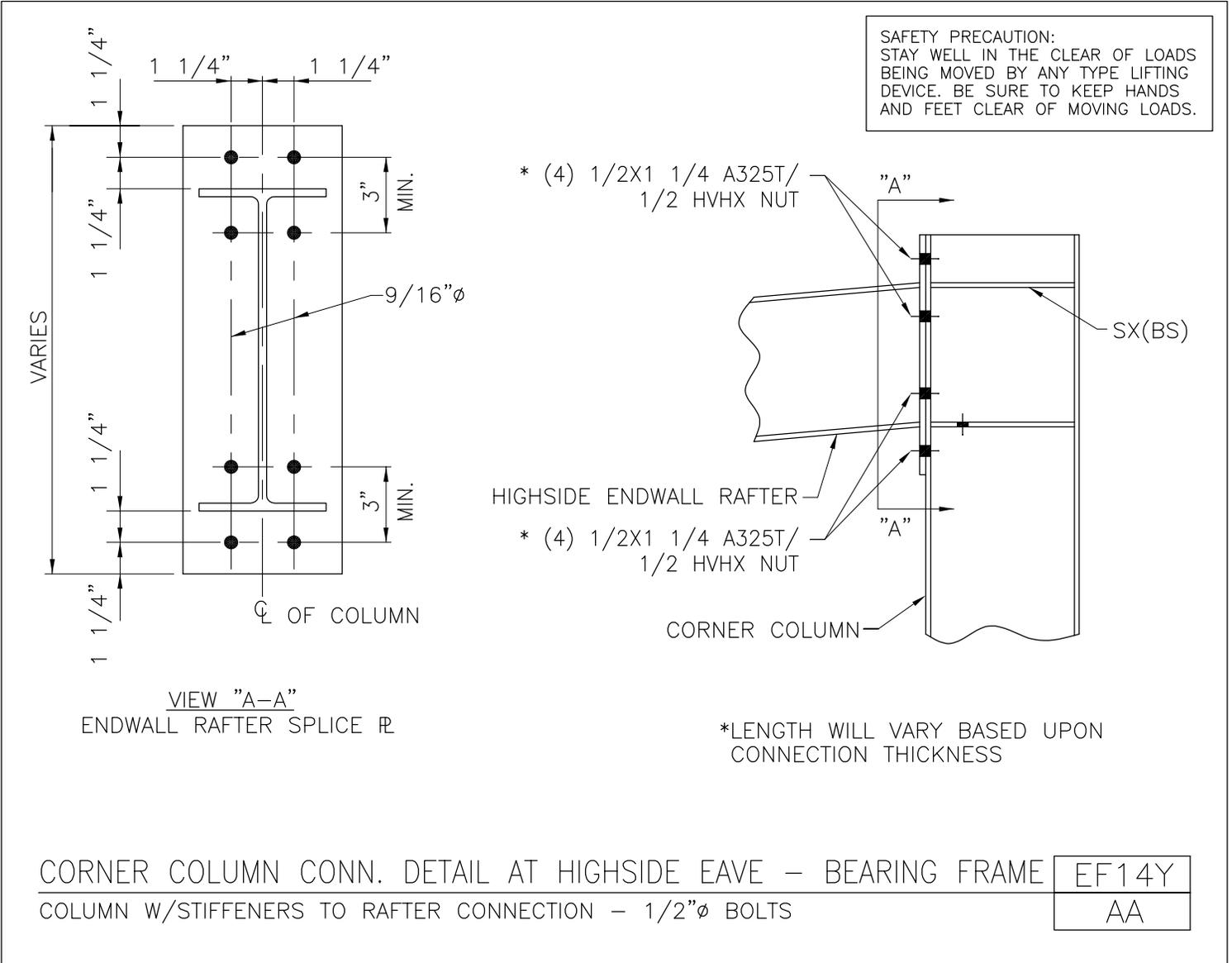
Corner Column Conn. Detail at Highside Eave - Bearing Frame
 Column to Rafter Connection - 3/4" Bolts
 EF14X/AA



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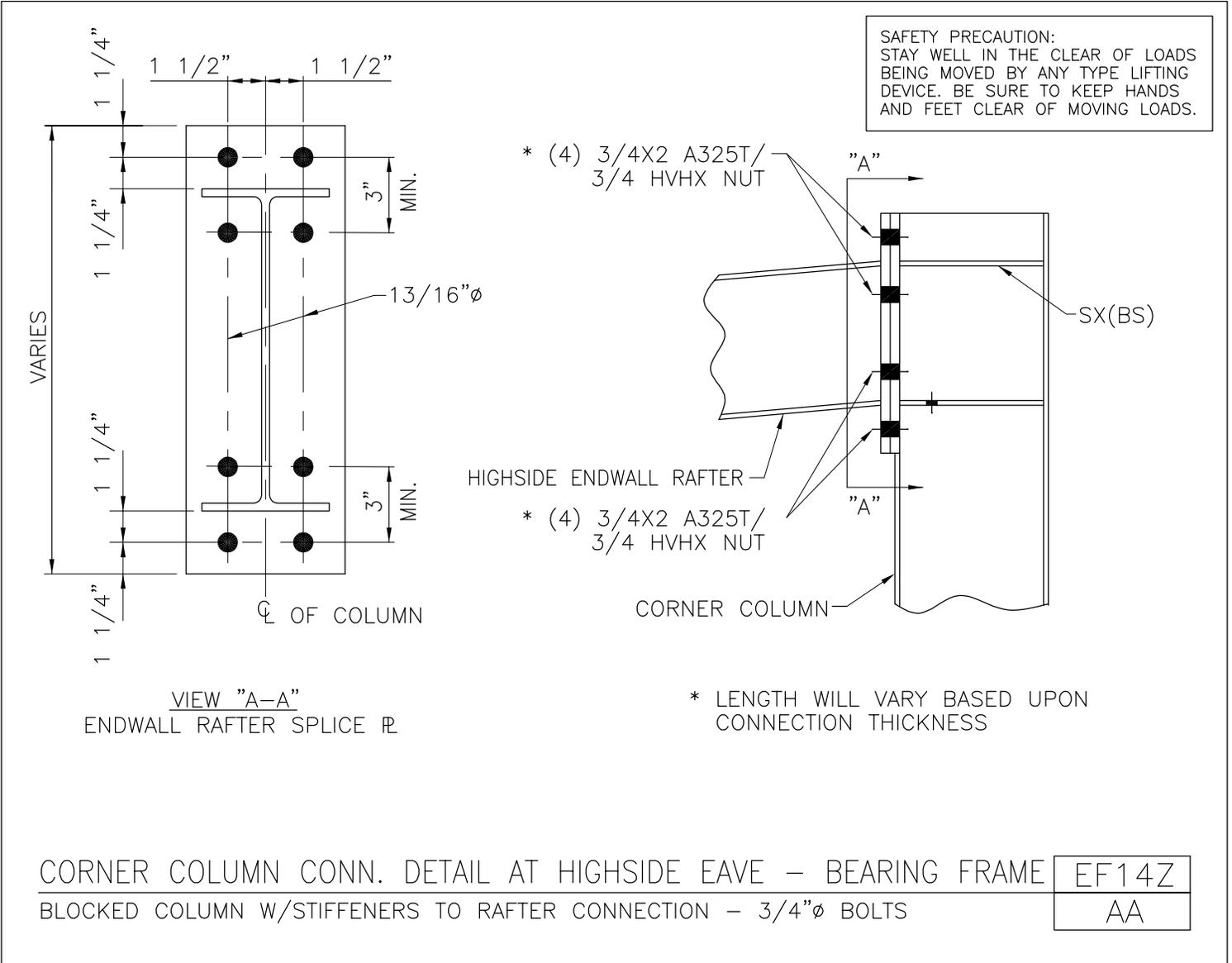
Corner Column Conn. Detail at Highside Eave - Bearing Frame
 Column w/ Stiffeners to Rafter Connection - 1/2" Bolts
 EF14Y/AA



| | |
|-------------------------------------------------------------|-------|
| CORNER COLUMN CONN. DETAIL AT HIGHSIDE EAVE – BEARING FRAME | EF14Y |
| COLUMN W/STIFFENERS TO RAFTER CONNECTION – 1/2"Ø BOLTS | AA |

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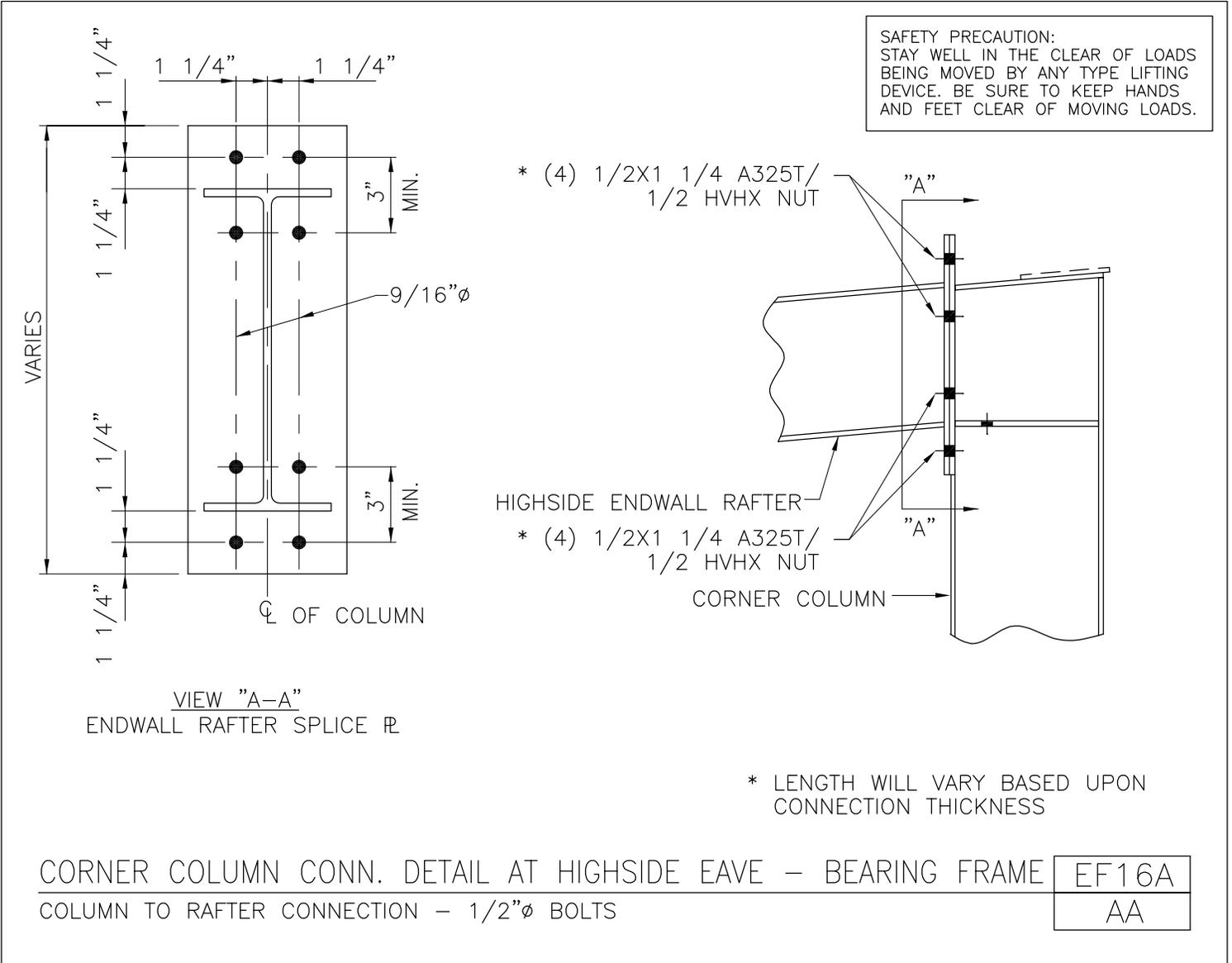
Corner Column Conn. Detail at Highside - Bearing Frame
 Blocked Column w/ Stiffeners to Rafter Connection - 3/4" Bolts
 EF14Z/AA



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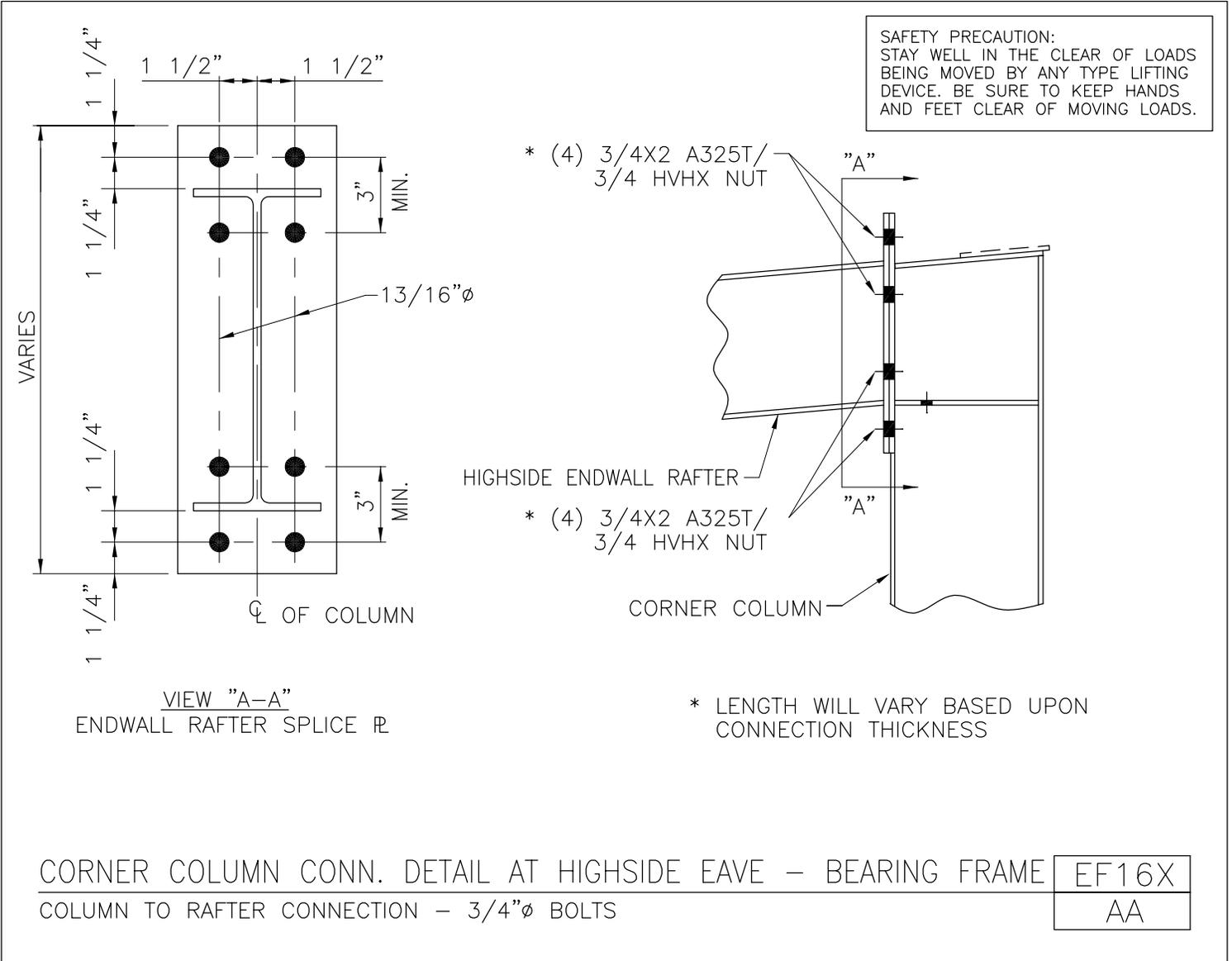
Corner Column Conn. Detail at Highside Eave - Bearing Frame
 Column to Rafter Connection - 1/2" Bolts
 EF16A/AA



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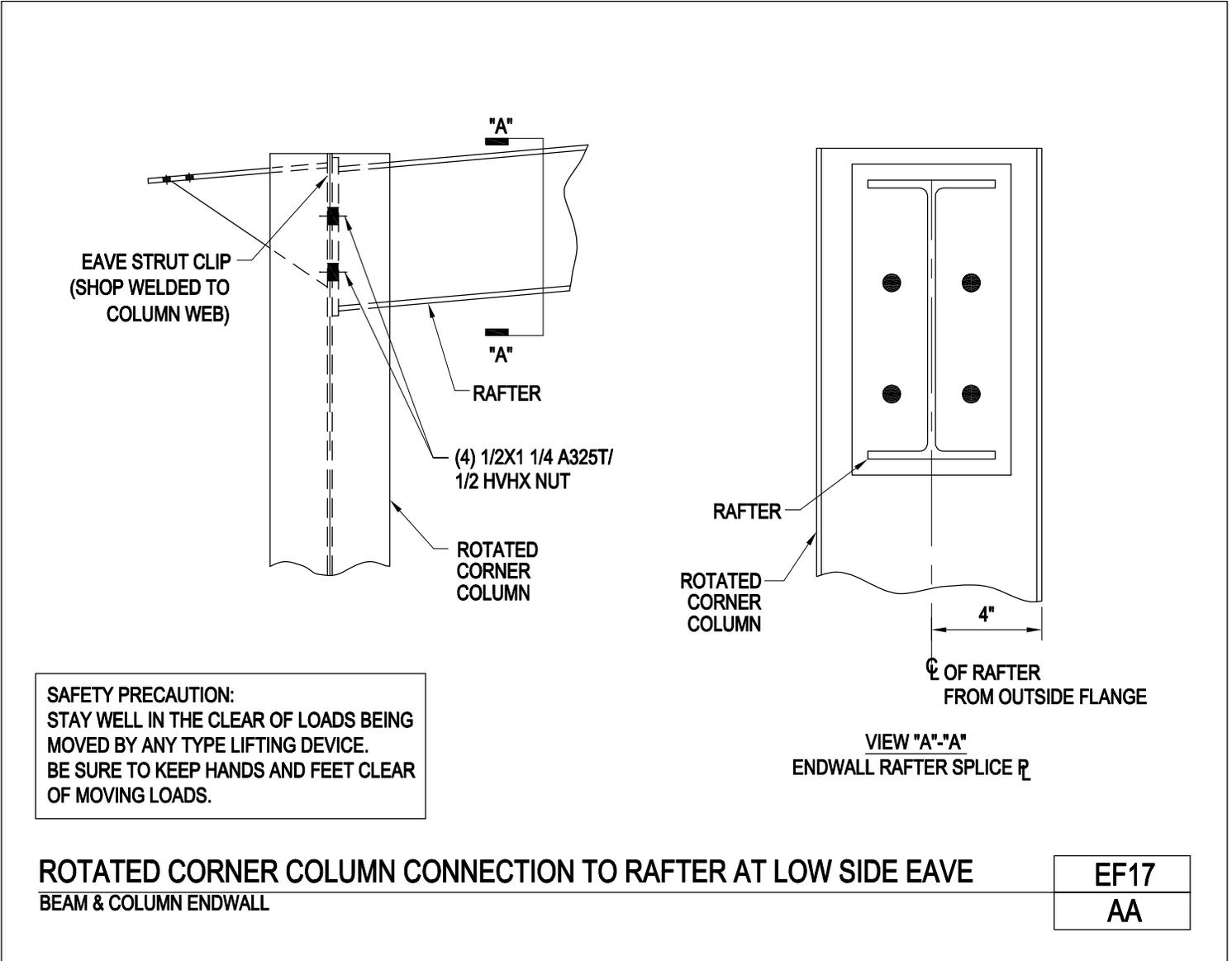
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Corner Column Conn. Detail at Highside Eave - Bearing Frame
 Column to Rafter Connection - 3/4" Bolts
 EF16X/AA



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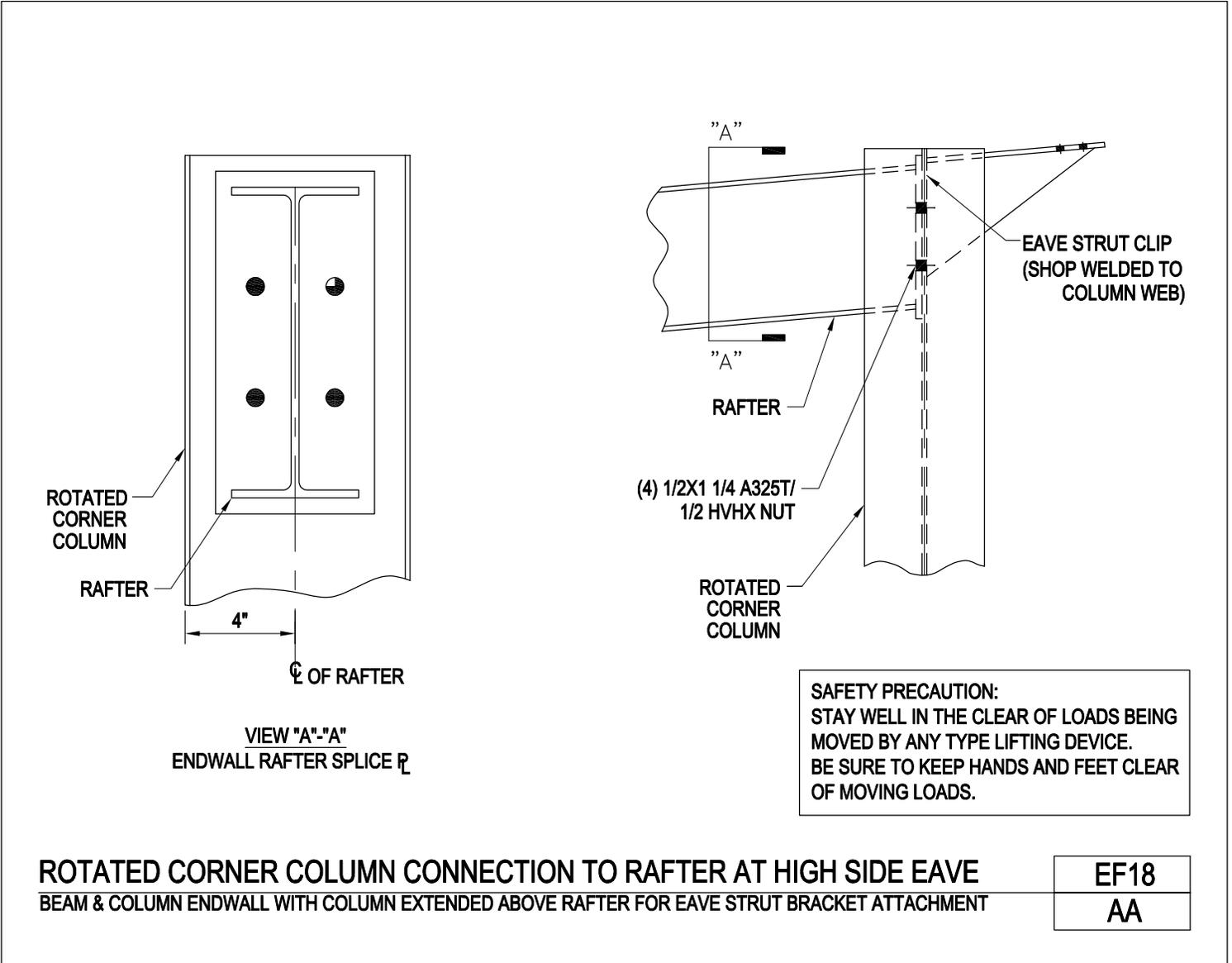
Rotated Corner Column Connection to Rafter at Low Side Eave
Beam & Column Endwall
EF17/AA



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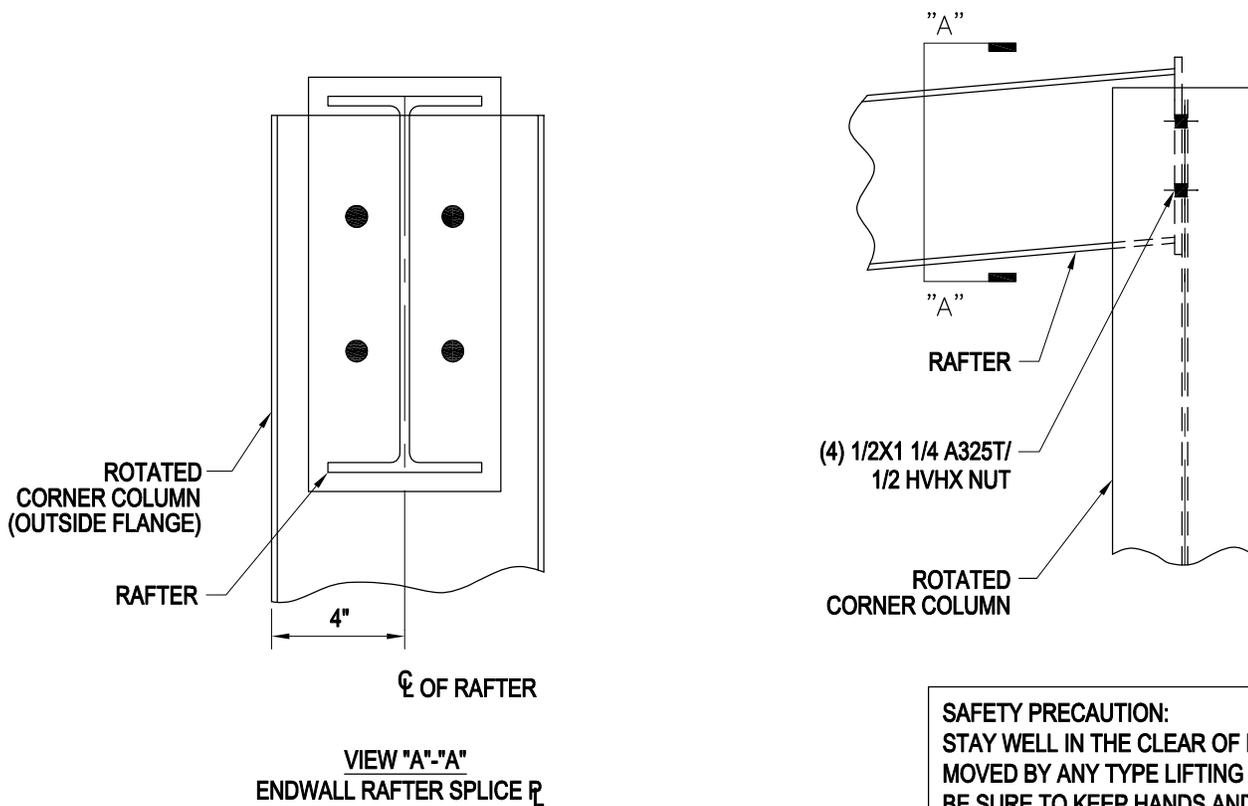
Rotated Corner Column Connection to Rafter at High Side Eave
 Beam & Column Endwall with Column Extended Above Rafter for Eave Strut Bracket Attachment
 EF18/AA



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Rotated Corner Column Connection to Rafter with High Side Purlin
Beam & Column and Open SW with Column Cutback for Purlin Clearance
EF18A/AA



SAFETY PRECAUTION:
STAY WELL IN THE CLEAR OF LOADS BEING
MOVED BY ANY TYPE LIFTING DEVICE.
BE SURE TO KEEP HANDS AND FEET CLEAR
OF MOVING LOADS.

ROTATED CORNER COLUMN CONNECTION TO RAFTER WITH HIGH SIDE PURLIN
BEAM & COLUMN EW AND OPEN SW WITH COLUMN CUTBACK FOR PURLIN CLEARANCE

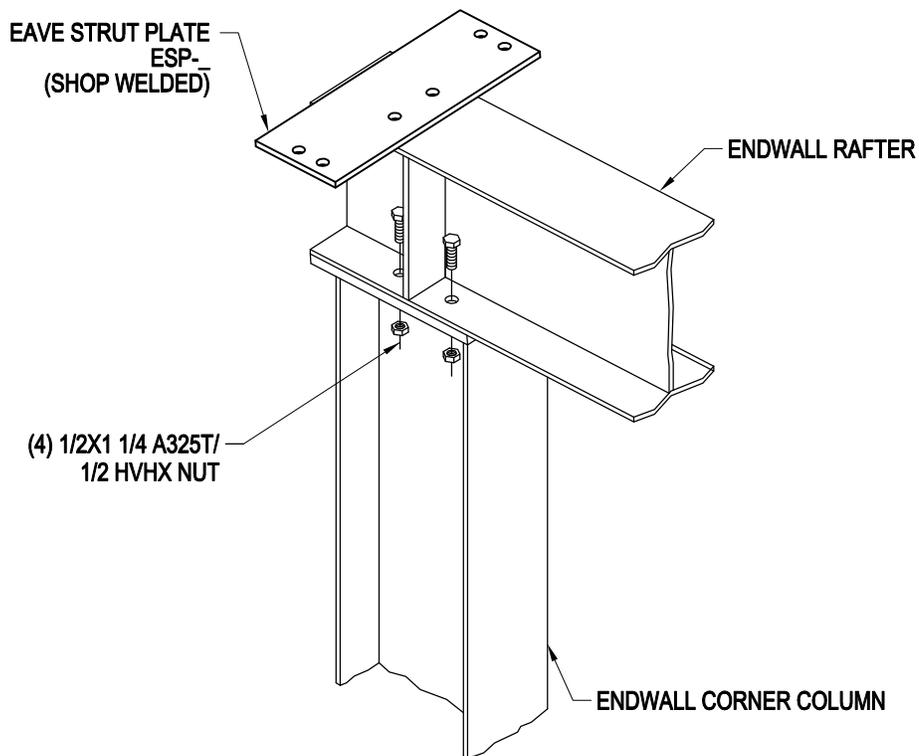
| |
|--------------|
| EF18A |
| AA |

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Corner Column Connection to Rafter (Flush or Inset Girts)
 Beam & Column Endwall with Rafter Extended Above Column
 EF20/AA

NOTE:
 LOW SIDE SHOWN, HIGH SIDE SIMILAR



CORNER COLUMN CONNECTION TO RAFTER (FLUSH or INSET GIRTS)
 BEAM & COLUMN ENDWALL WITH RAFTER EXTENDED ABOVE COLUMN

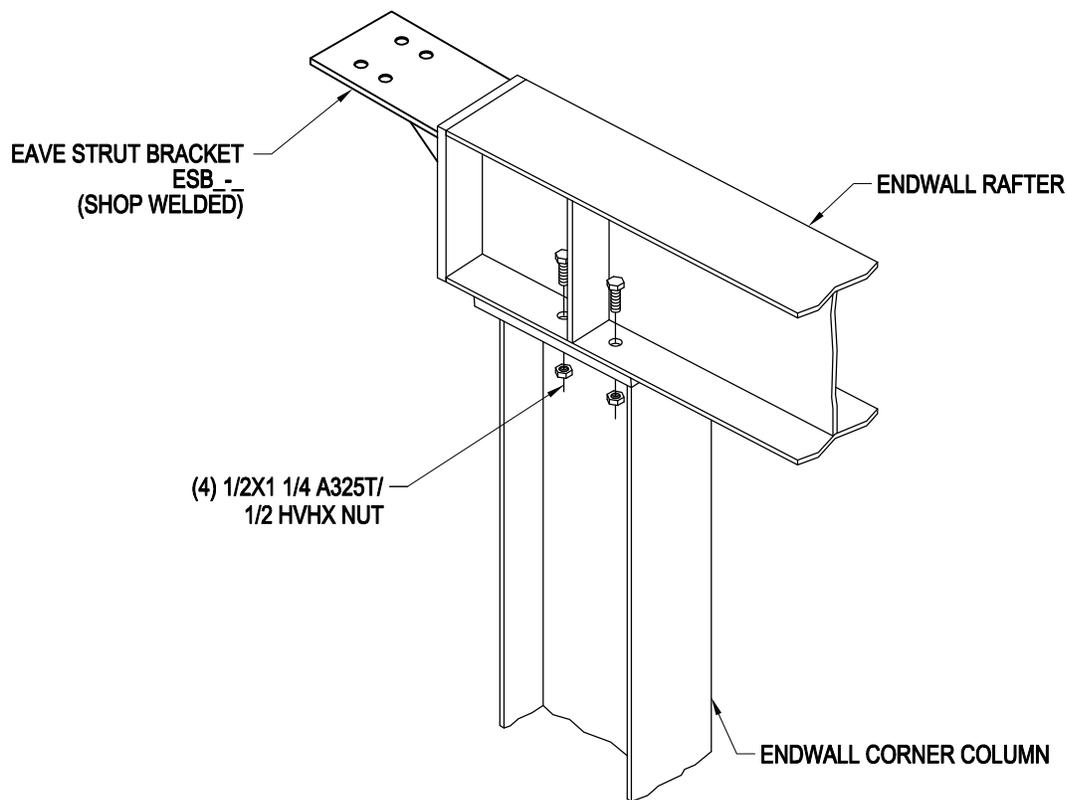
| |
|------|
| EF20 |
| AA |

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Corner Column Connection to Rafter (Bypass Girts)
 Beam & Column Endwall with Rafter Extended Above Column
 EF20R/AA

NOTE:
 LOW SIDE SHOWN, HIGH SIDE SIMILAR



CORNER COLUMN CONNECTION TO RAFTER (BYPASS GIRTS)
 BEAM & COLUMN ENDWALL WITH RAFTER EXTENDED ABOVE COLUMN

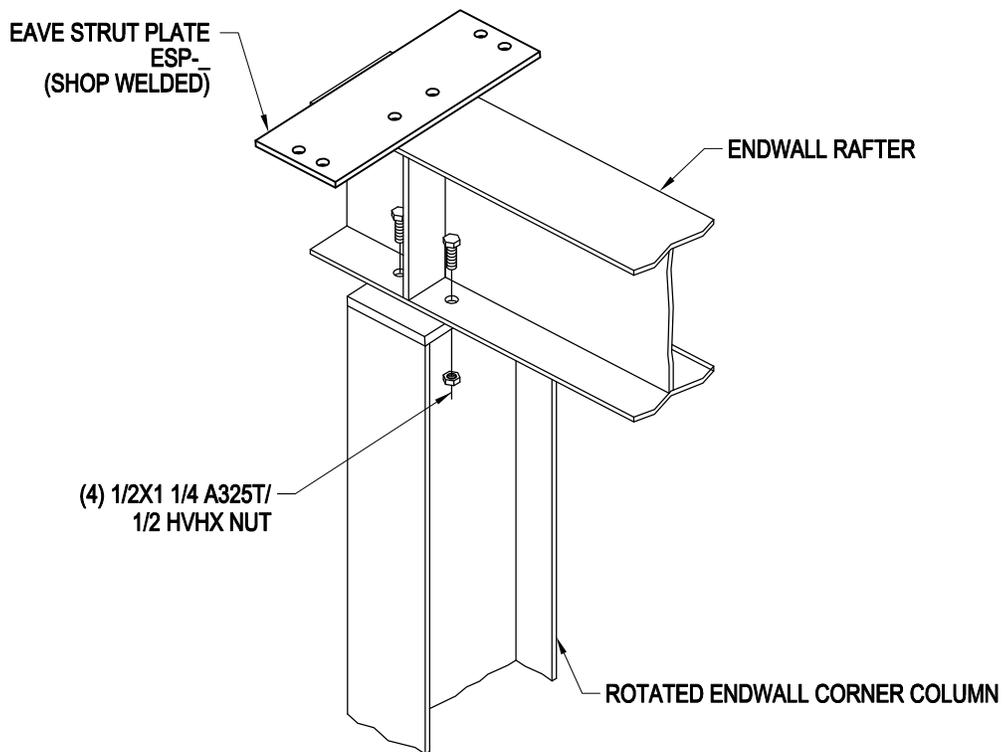
| |
|-------|
| EF20R |
| AA |

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Rotated Corner Column Connection to Rafter (Flush or Inset Girts)
 Beam & Column Endwall with Rafter Extended Above Column
 EF21/AA

NOTE:
 LOW SIDE SHOWN, HIGH SIDE SIMILAR



ROTATED CORNER COLUMN CONNECTION TO RAFTER (FLUSH or INSET GIRTS)
 BEAM & COLUMN ENDWALL WITH RAFTER EXTENDED ABOVE COLUMN

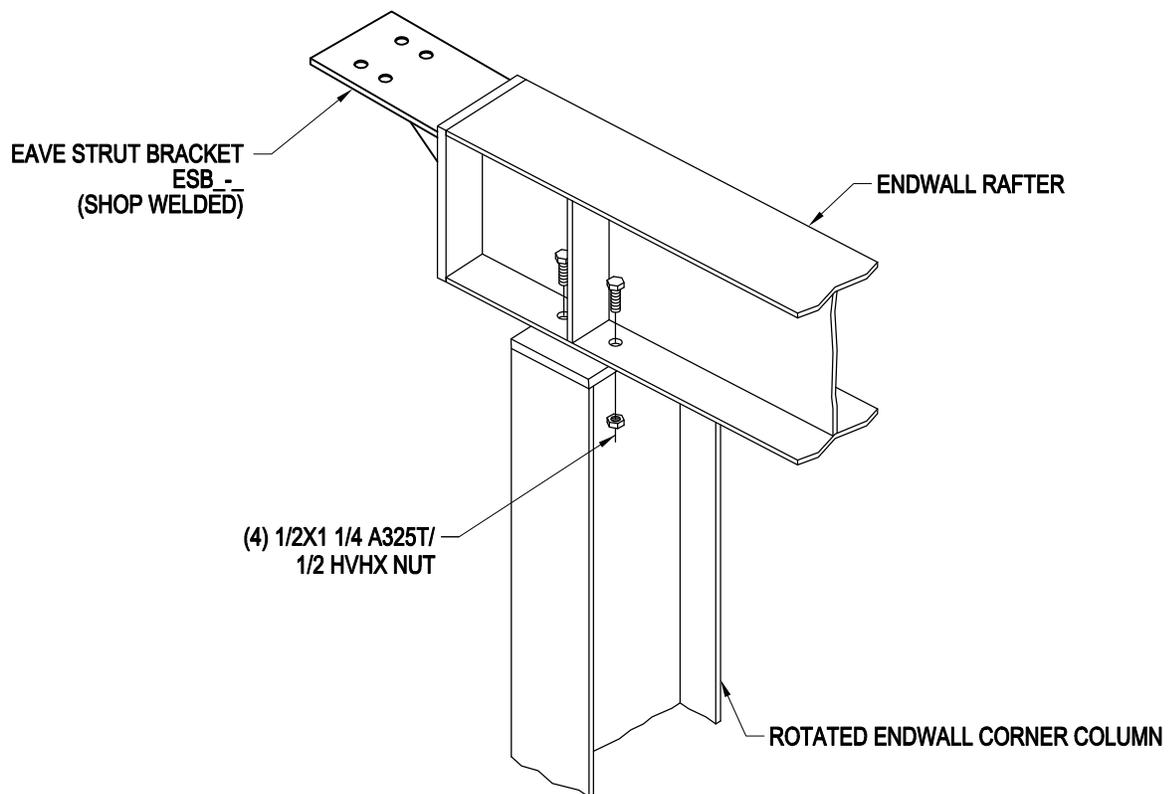
| |
|------|
| EF21 |
| AA |

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Rotated Corner Column Connection to Rafter (Bypass Girts)
Beam & Column Endwall with Rafter Extended Above Column
EF21R/AA

NOTE:
LOW SIDE SHOWN, HIGH SIDE SIMILAR



ROTATED CORNER COLUMN CONNECTION TO RAFTER (BYPASS GIRTS)
BEAM & COLUMN ENDWALL WITH RAFTER EXTENDED ABOVE COLUMN

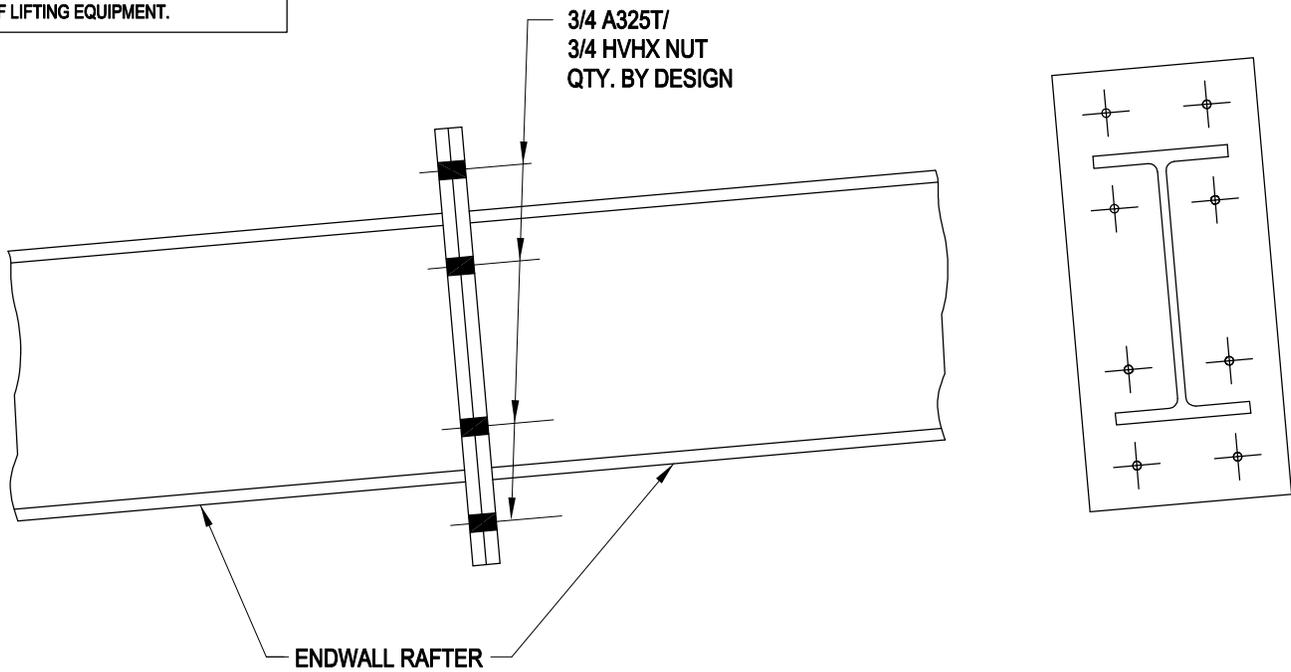
| |
|-------|
| EF21R |
| AA |

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Endwall Rafter Splice Detail
Rafter to Rafter Connection
EF22/AA

SAFETY PRECAUTION:
WORKERS SHOULD BE TRAINED IN
THE CORRECT AND SAFE OPERATION
OF LIFTING EQUIPMENT.



ENDWALL RAFTER SPLICE DETAIL

RAFTER TO RAFTER CONNECTION

EF22

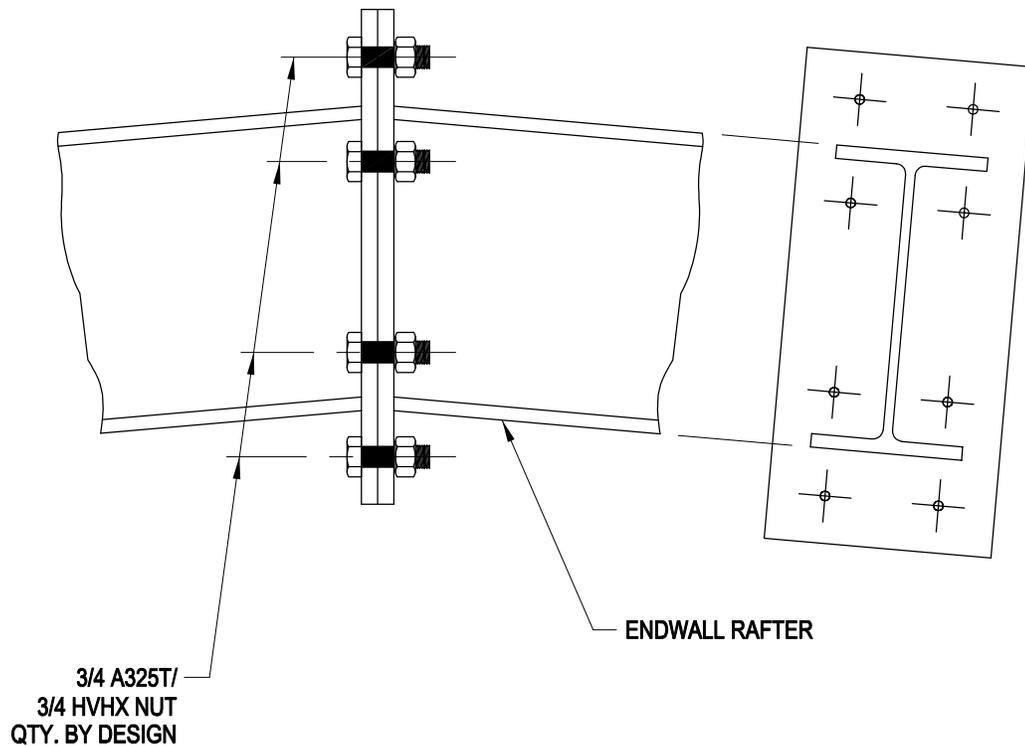
AA

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Endwall Rafter Ridge Detail (Hot Rolled and Built-Up)
Rafter w/ Ridge Splice Plate
EF23/AA

SAFETY PRECAUTION:
EACH WORKER SHOULD BE TRAINED
TO USE THE SAFEST AND MOST
PRODUCTIVE ERECTION TECHNIQUES.



ENDWALL RAFTER RIDGE DETAIL (HOT ROLLED AND BUILT-UP)
RAFTER W/RIDGE SPLICE PLATE

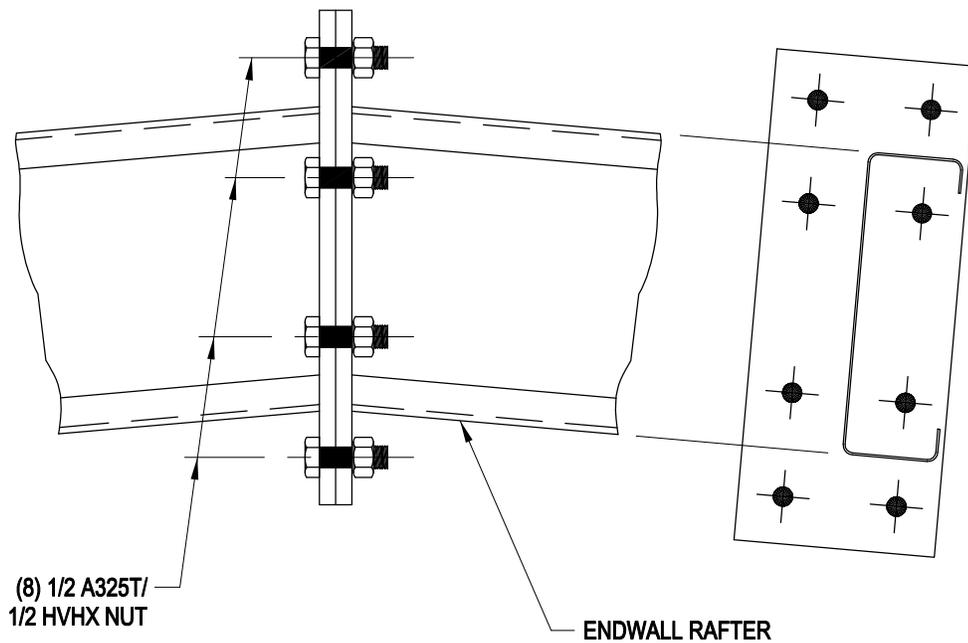
| |
|-------------|
| EF23 |
| AA |

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Endwall Rafter Ridge Detail (Cold Formed)
Rafter w/ Ridge Splice Plate
EF23A/AA

SAFETY PRECAUTION:
EACH WORKER SHOULD BE TRAINED
TO USE THE SAFEST AND MOST
PRODUCTIVE ERECTION TECHNIQUES.



ENDWALL RAFTER RIDGE DETAIL (COLD FORMED)

RAFTER W/RIDGE SPLICE PLATE

EF23A

AA

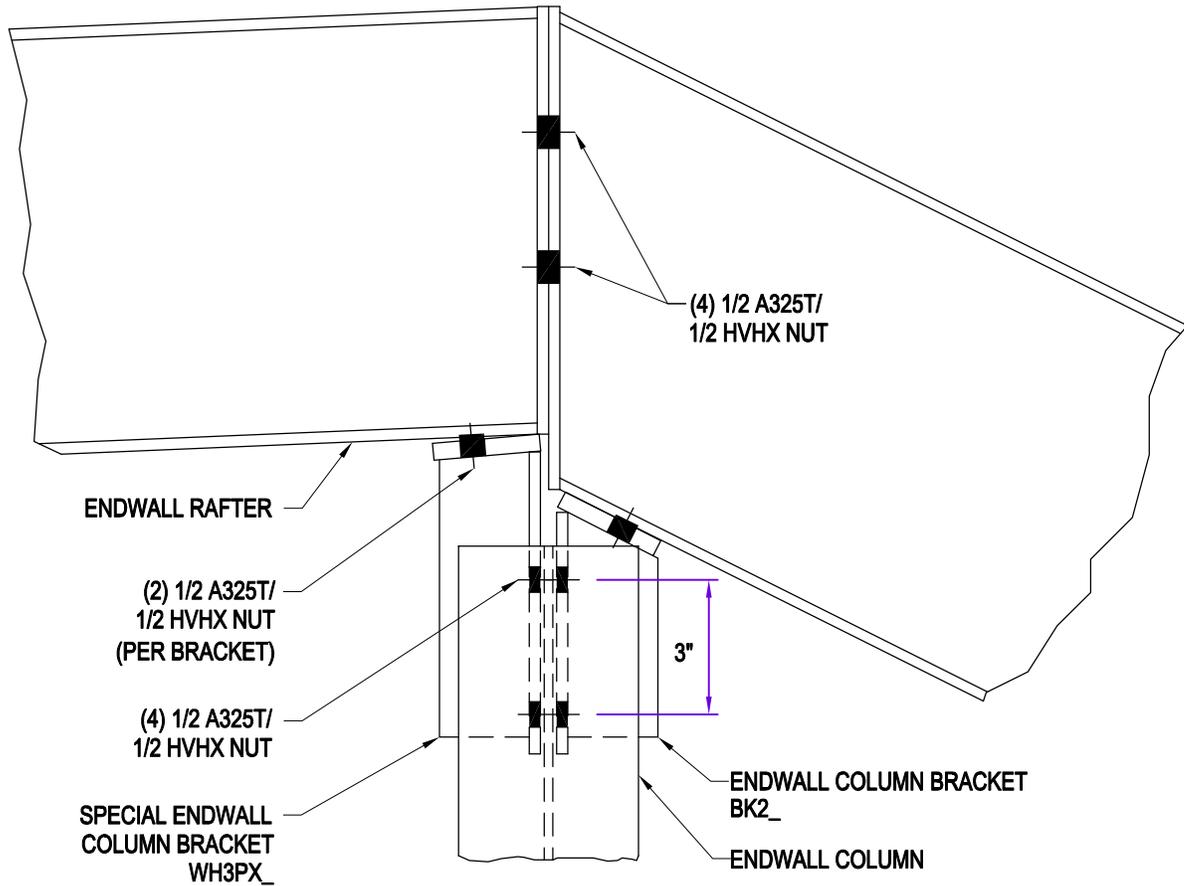
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Endwall Interior Column Connection (Hot Rolled or Built-Up)

At Ridge

EF24Y/AA



ENDWALL INTERIOR COLUMN CONNECTION (HOT ROLLED OR BUILT-UP)

AT RIDGE

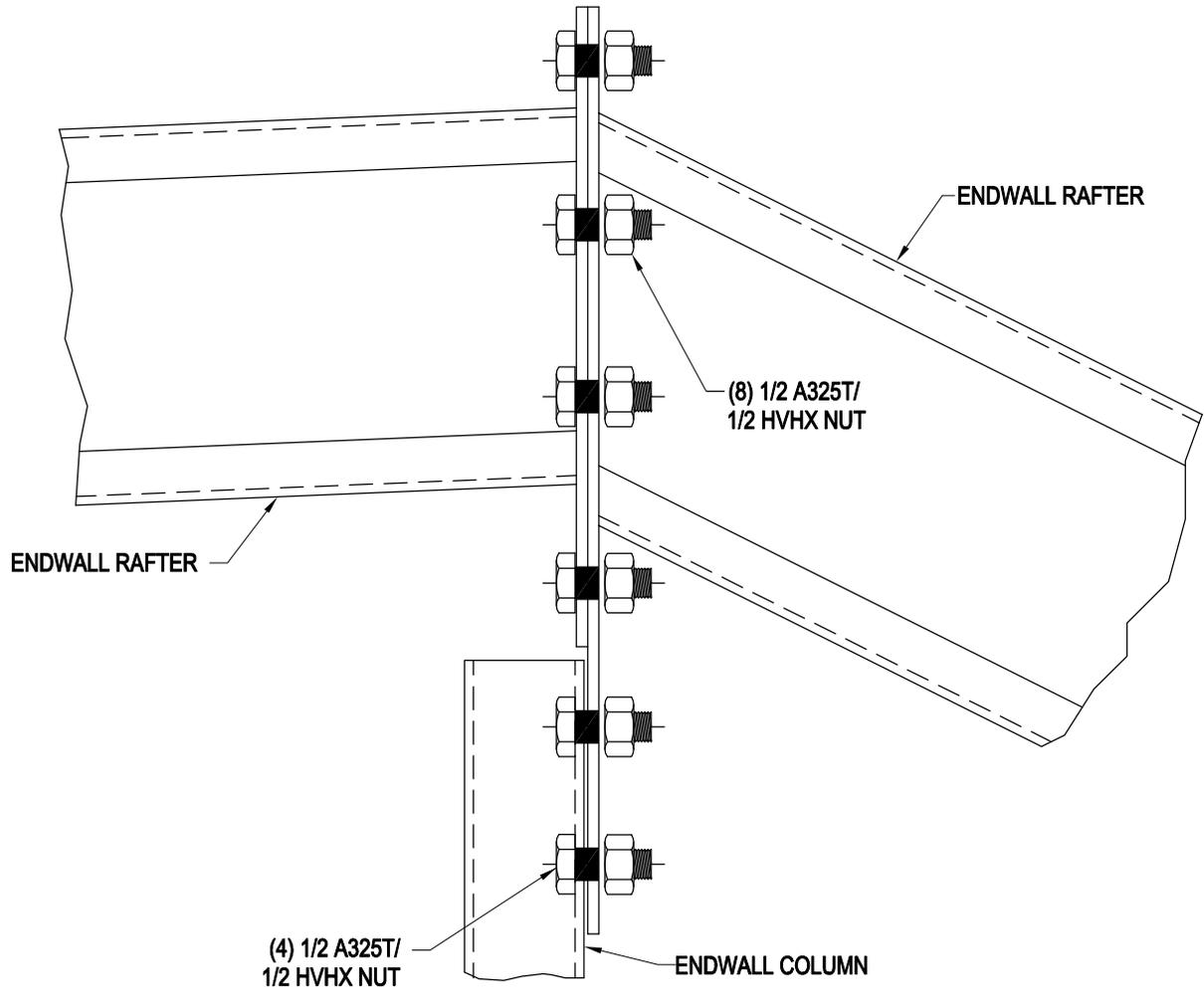
EF24Y

AA

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Endwall Interior Column Connection (Cold Formed)
At Unsymmetrical Ridge
EF24YA/AA



ENDWALL INTERIOR COLUMN CONNECTION (COLD FORMED)
AT UNSYMMETRICAL RIDGE

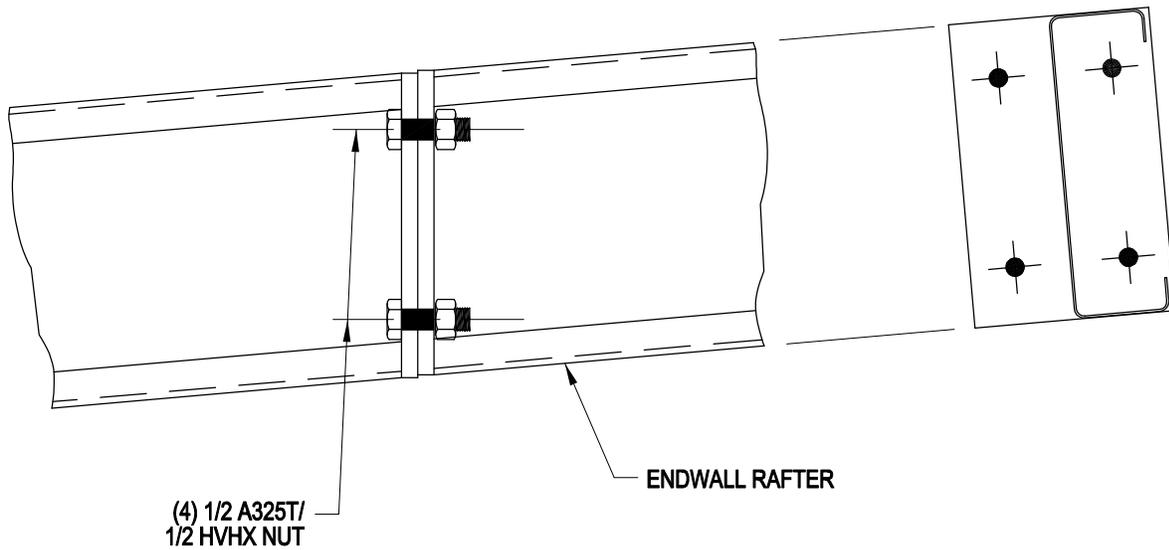
| |
|--------|
| EF24YA |
| AA |

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Endwall Rafter Splice Detail (Cold Formed)
Rafter w/ Intermediate Splice Plate
EF25/AA

**SAFETY PRECAUTION:
EACH WORKER SHOULD BE TRAINED
TO USE THE SAFEST AND MOST
PRODUCTIVE ERECTION TECHNIQUES.**



ENDWALL RAFTER SPLICE DETAIL (COLD FORMED)

RAFTER w/INTERMEDIATE SPLICE PLATE

EF25

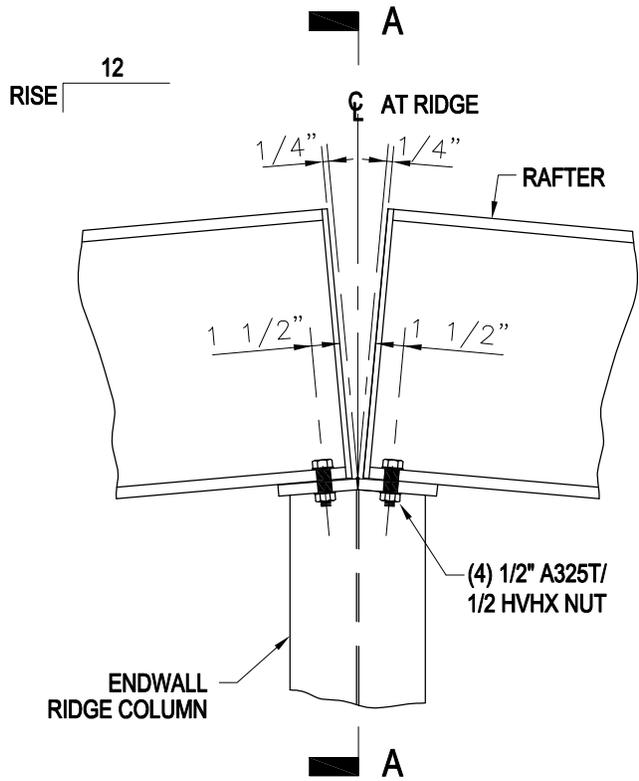
AA

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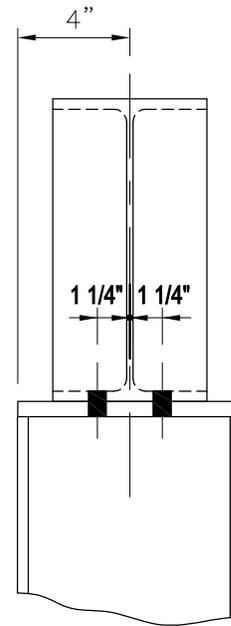
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Ridge Column Connection to Rafter

EF26/AA



SAFETY PRECAUTION:
STAY CLEAR OF ANY MOVING LOAD.
MAKE CERTAIN ALL FRAMING IS PROPERLY BRACED OR GUYED BEFORE LIFTING LINES ARE REMOVED.



SECTION A-A

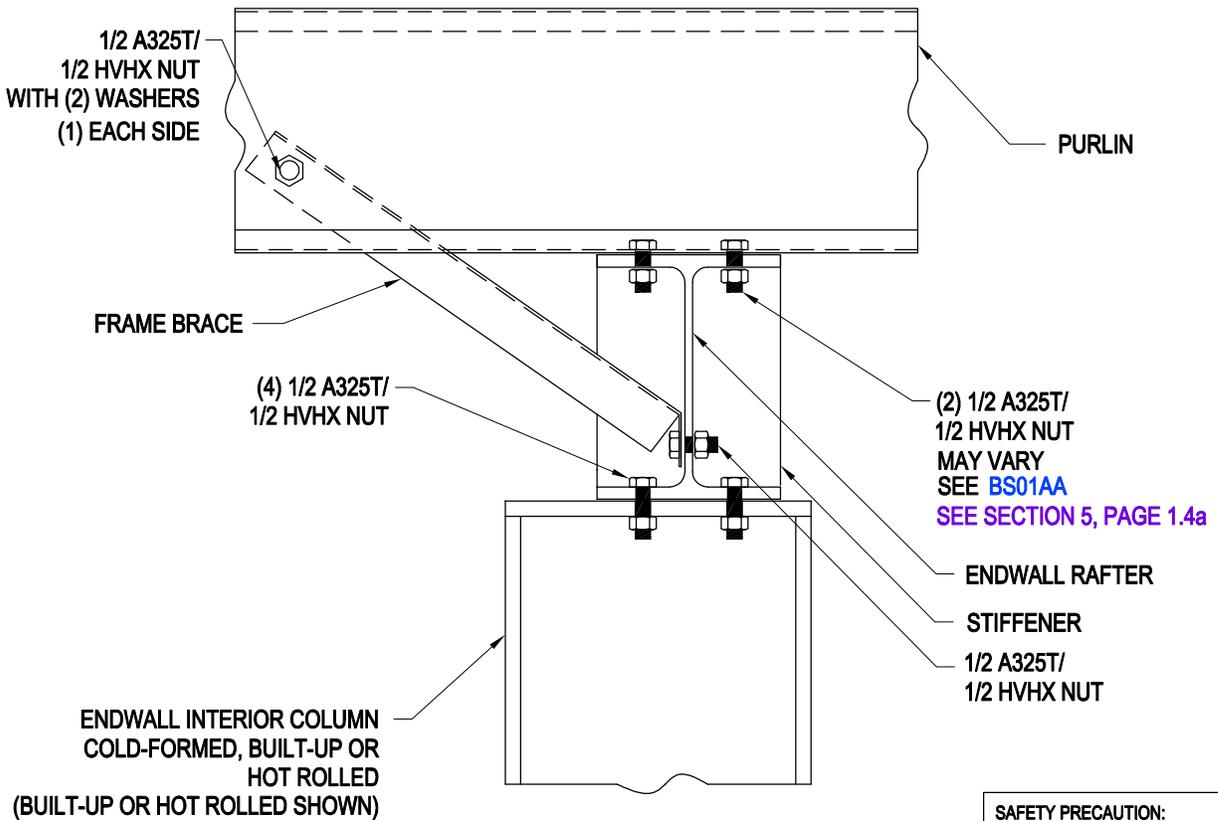
RIDGE COLUMN CONNECTION TO RAFTER

| |
|------|
| EF26 |
| AA |

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Endwall Interior Column Connection Detail
 Column to Rafter Connection
 EF26W/AA



SAFETY PRECAUTION:
 WORKERS SHOULD BE TRAINED IN
 THE PROPER ERECTION PROCEDURES
 FOR ALL JOBS.

ENDWALL INTERIOR COLUMN CONNECTION DETAIL
 COLUMN TO RAFTER CONNECTION

| |
|--------------|
| EF26W |
| AA |

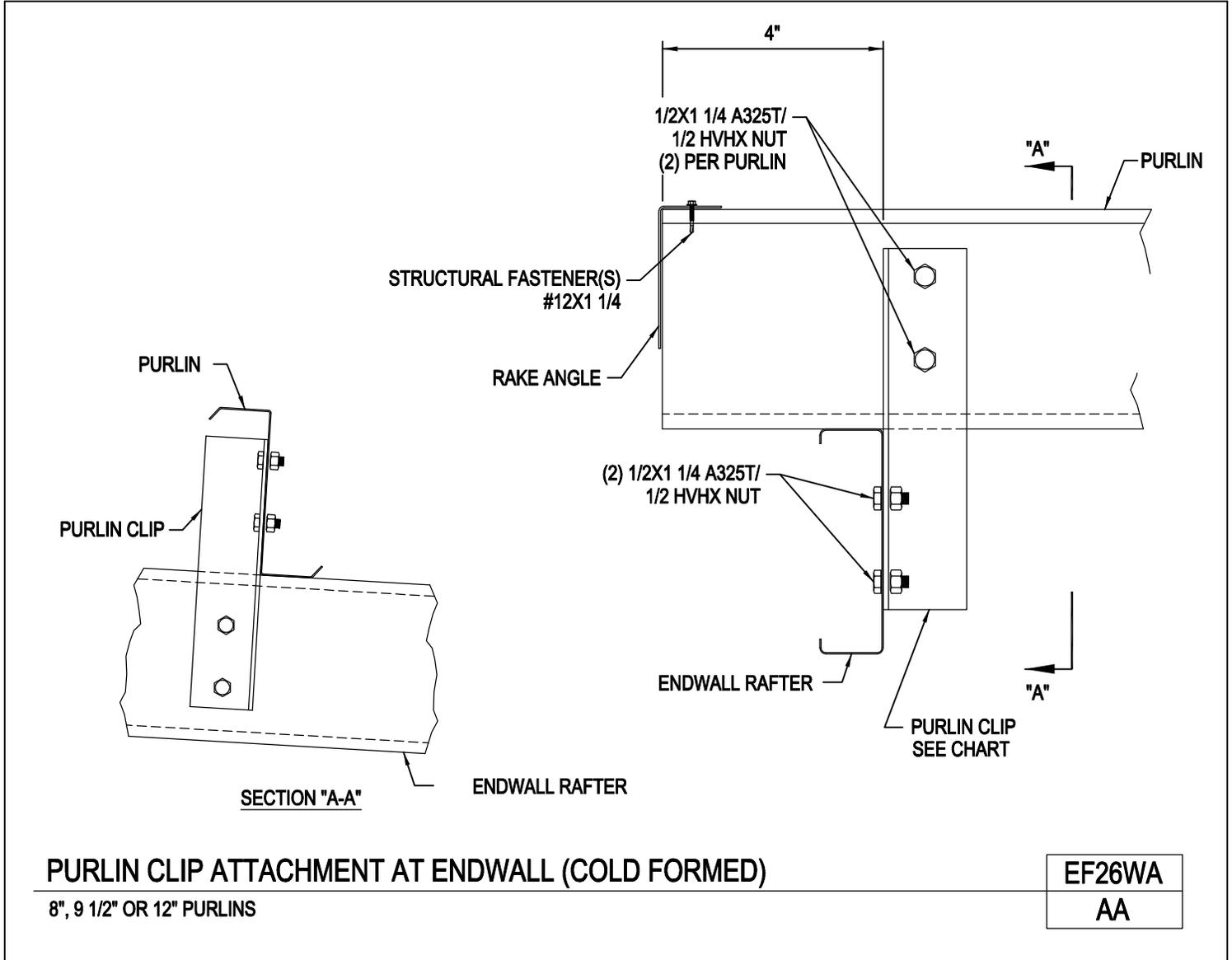
[Download the DWG file by clicking here.](#)

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Purlin Clip Attachment at Endwall (Cold Formed)

8", 9 1/2" or 12" Purlins

EF26WA/AA



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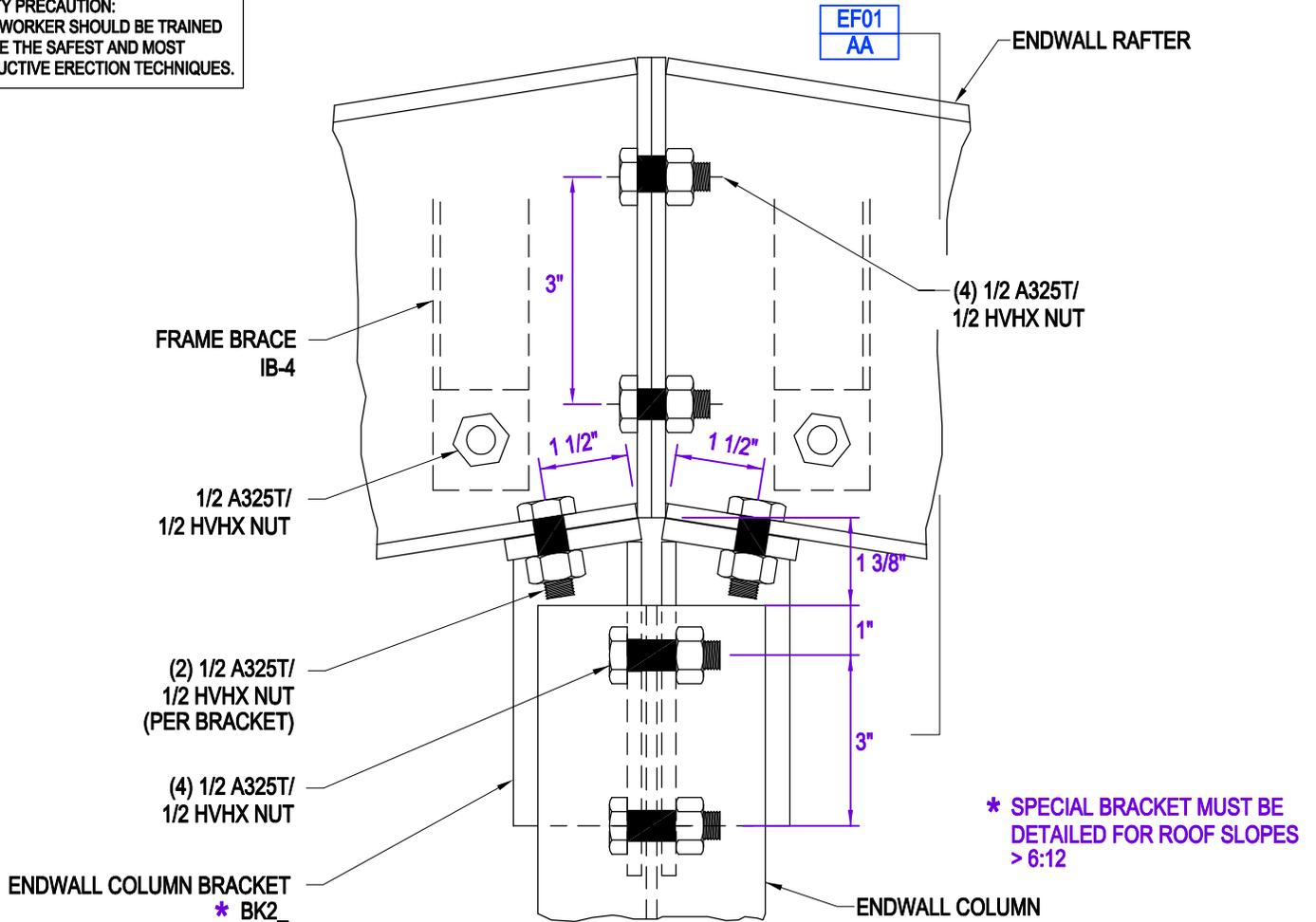
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Endwall Interior Column Bracket Connection

At Ridge

EF26Y/AA

SAFETY PRECAUTION:
EACH WORKER SHOULD BE TRAINED
TO USE THE SAFEST AND MOST
PRODUCTIVE ERECTION TECHNIQUES.



ENDWALL INTERIOR COLUMN BRACKET CONNECTION

AT RIDGE

EF26Y

AA

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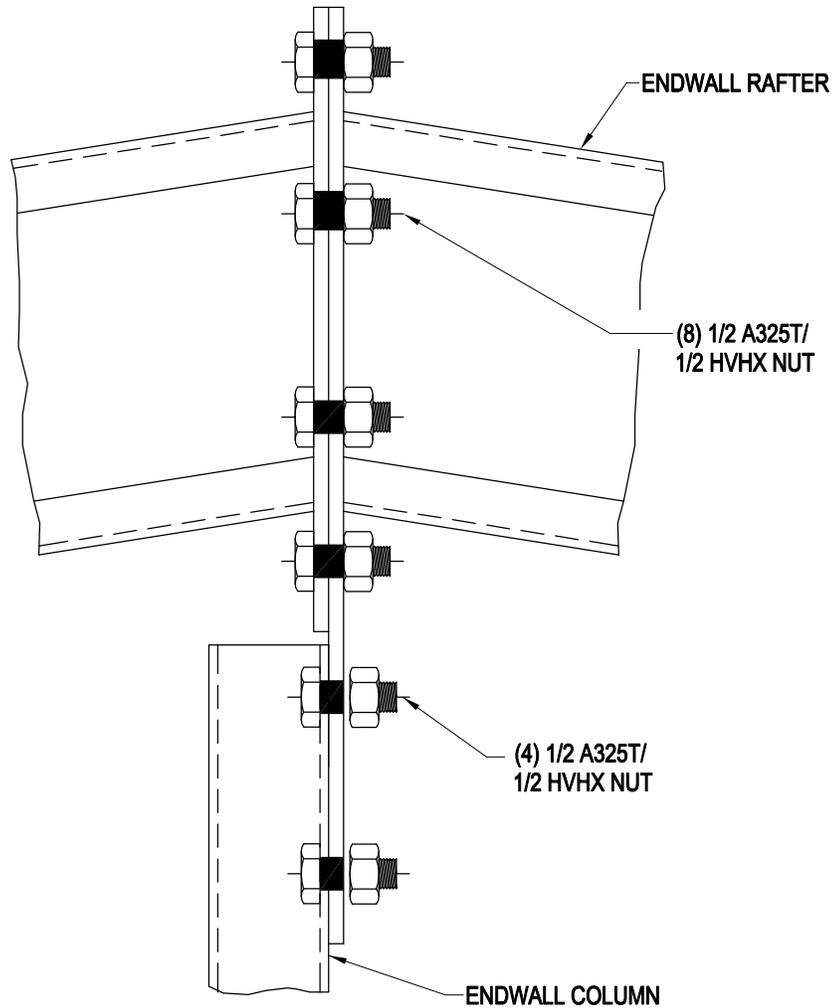
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Endwall Interior Column Connection (Cold Formed)

At Ridge

EF26YA/AA

SAFETY PRECAUTION:
EACH WORKER SHOULD BE TRAINED
TO USE THE SAFEST AND MOST
PRODUCTIVE ERECTION TECHNIQUES.



ENDWALL INTERIOR COLUMN CONNECTION (COLD FORMED)

AT RIDGE

EF26YA

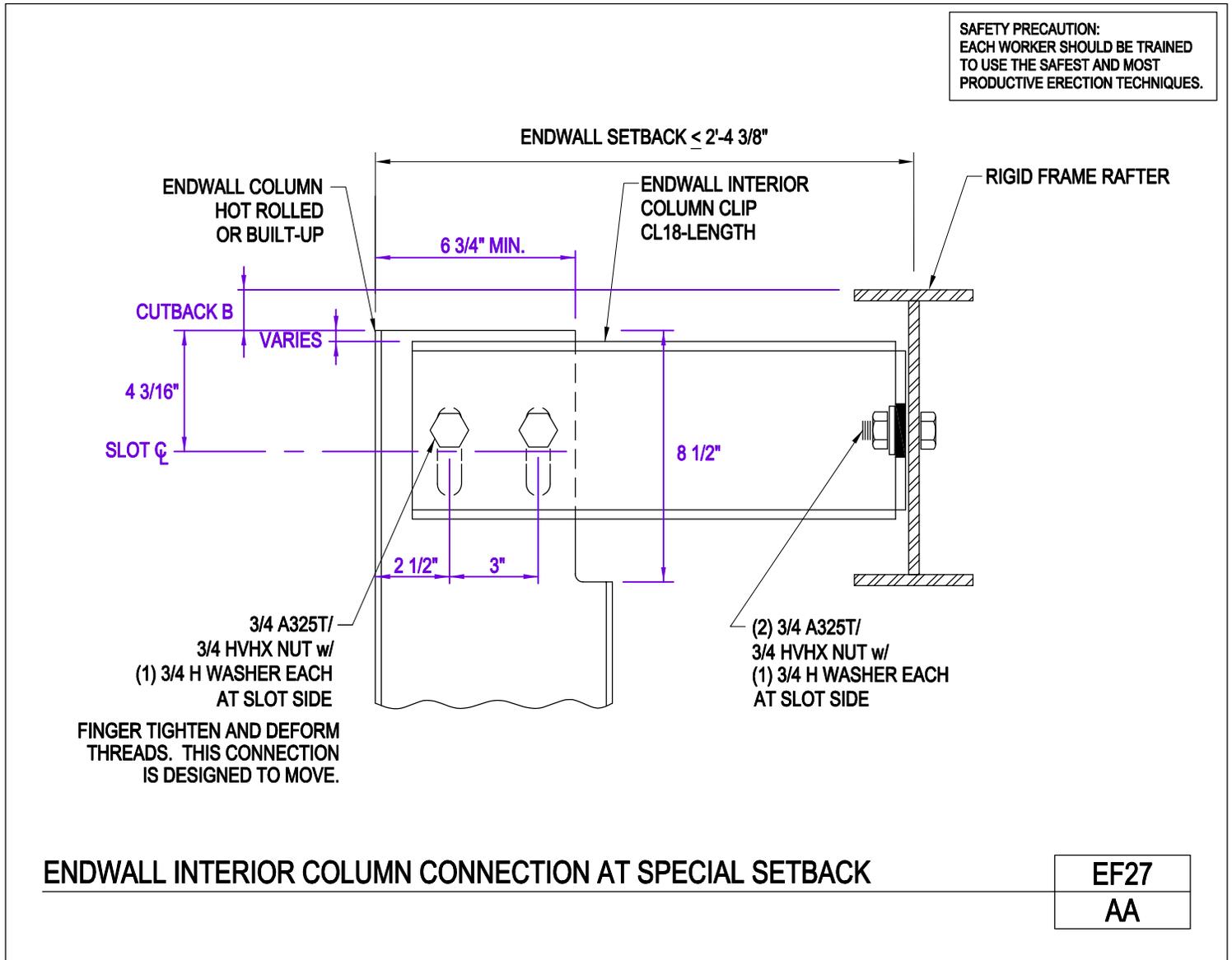
AA

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Endwall Interior Column Connection at Special Setback

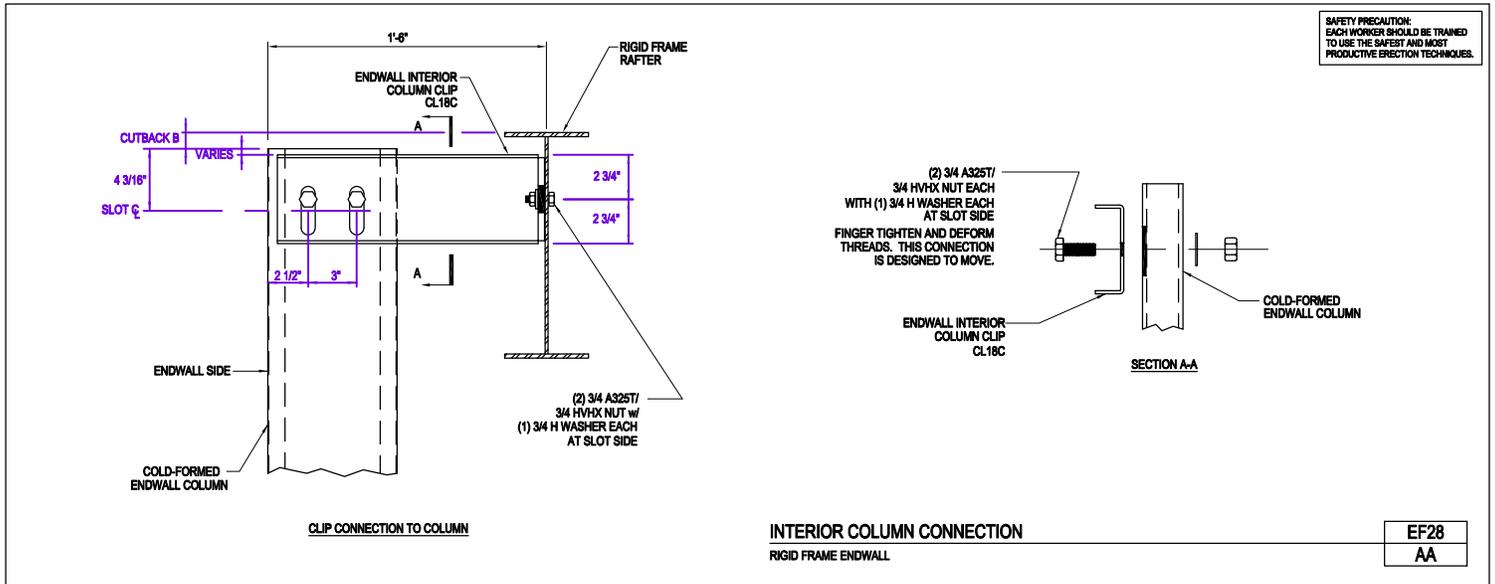
EF27/AA



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Interior Column Connection
Rigid Frame Endwall
EF28/AA

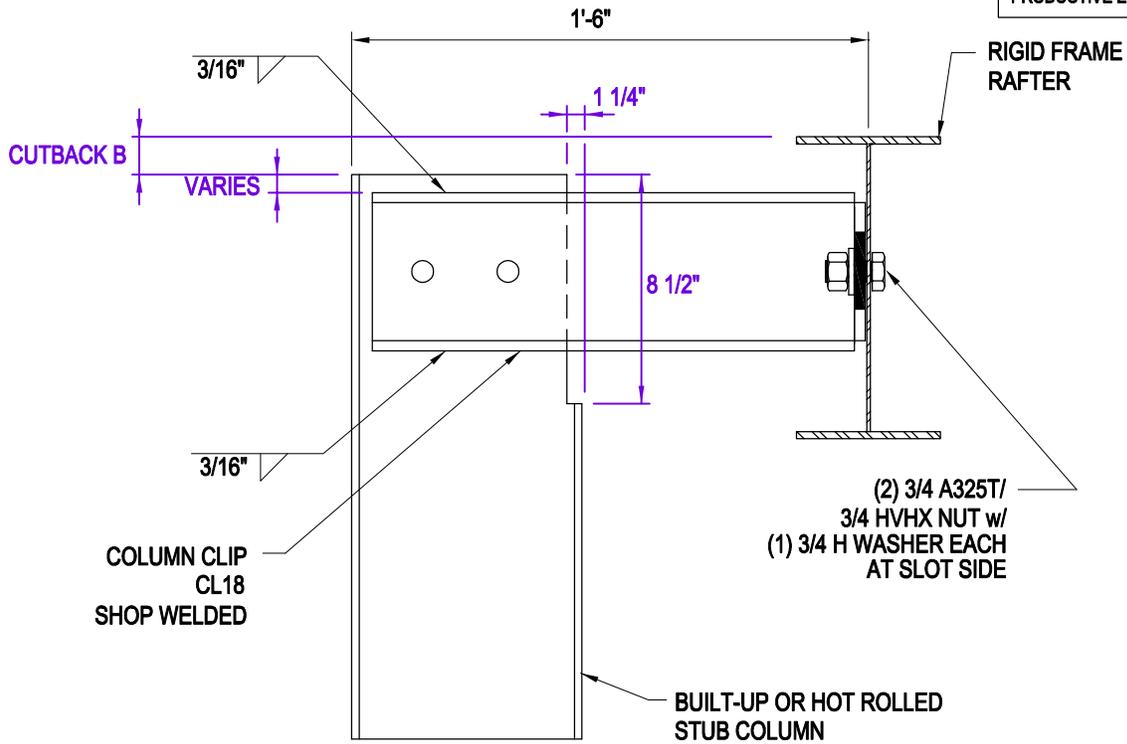


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Interior Column Connection w/ Welded Clip
 Rigid Frame Type V Endwall Interior Column
 EF28A/AA

SAFETY PRECAUTION:
 EACH WORKER SHOULD BE TRAINED
 TO USE THE SAFEST AND MOST
 PRODUCTIVE ERECTION TECHNIQUES.



OVERALL LENGTH NOT TO EXCEED 2'-3 1/2"
 WITHOUT DESIGN APPROVAL

SEE GABLE KNEE BRACE DETAILS FOR
 FRAME BRACE/"KICKER" REQUIREMENTS.
 BY DESIGN.

INTERIOR COLUMN CONNECTION w/WELDED CLIP
 RIGID FRAME TYPE V ENDWALL INTERIOR COLUMN

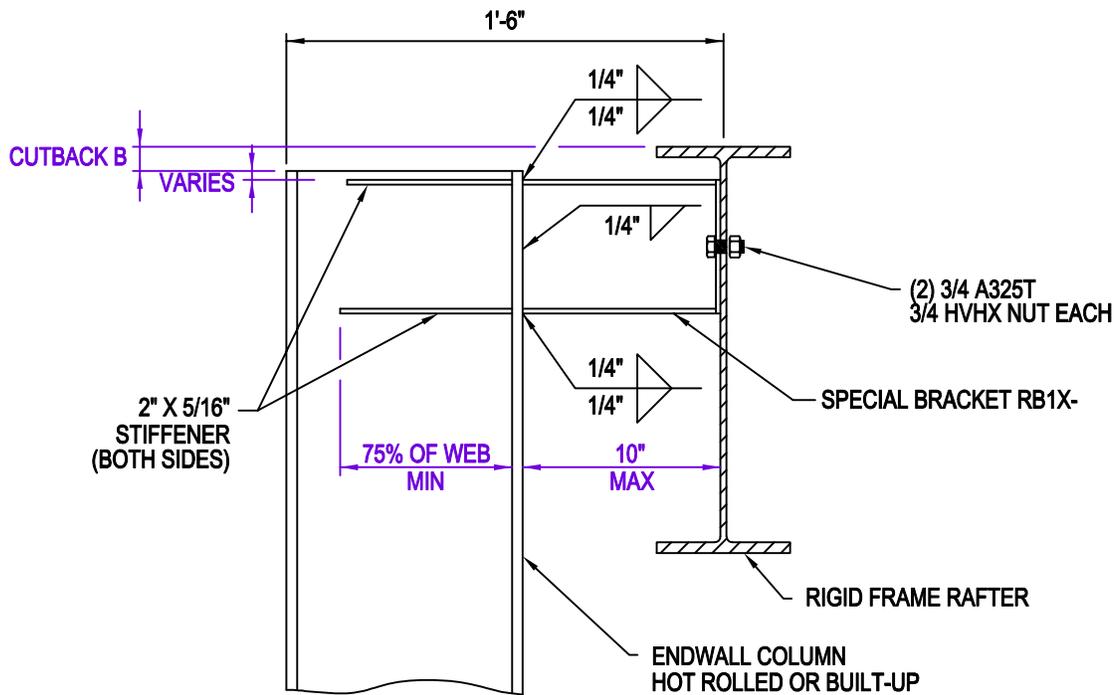
| |
|-------|
| EF28A |
| AA |

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Interior Column Connection with Welded Clip
Rigid Frame Endwall
EF28BB/AA

SAFETY PRECAUTION:
EACH WORKER SHOULD BE TRAINED
TO USE THE SAFEST AND MOST
PRODUCTIVE ERECTION TECHNIQUES.



INTERIOR COLUMN CONNECTION WITH WELDED CLIP

RIGID FRAME ENDWALL

EF28BB

AA

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Rigid Frame Endwall with Center Column
 Column to Rafter Connection using CL20_(L/R)
 EF29/AA

SAFETY PRECAUTION:
 EACH WORKER SHOULD BE TRAINED
 TO USE THE SAFEST AND MOST
 PRODUCTIVE ERECTION TECHNIQUES.

| * ATTACHMENT MEMBERS AT RAFTER SPLICE PLATE | | | |
|---------------------------------------------|----------------------|--------------|--------------|
| CLIP ANGLE | A325T BOLTS | HVHX NUT | WASHER |
| (1) EACH L/R | (2) PER SPLICE PLATE | (1) PER BOLT | (2) PER BOLT |
| CL20AL CL20AR | 3/4 A325T | 3/4 HVHX NUT | 3/4 WASHERS |
| CL20BL CL20BR | 7/8 A325T | 7/8 HVHX NUT | 7/8 WASHERS |
| CL20CL CL20CR | 1 A325T | 1 HVHX NUT | 1 WASHERS |

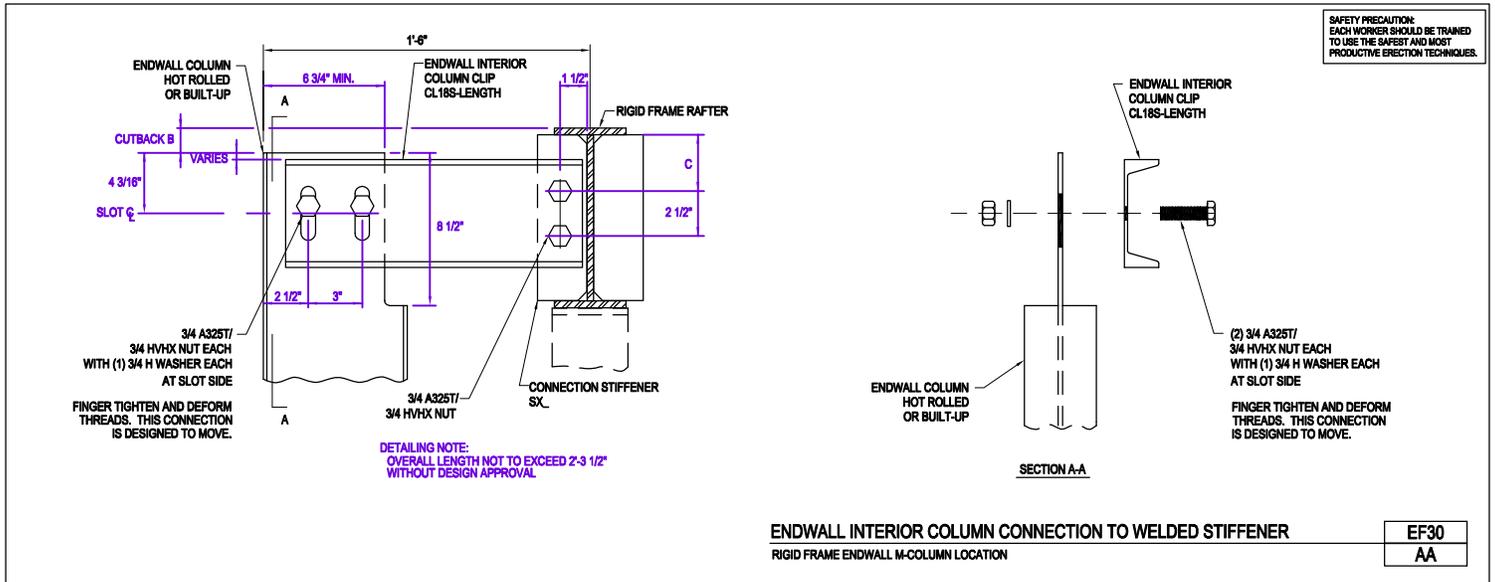
RIGID FRAME ENDWALL WITH CENTER COLUMN
 COLUMN TO RAFTER CONNECTION USING CL20_(L/R)

EF29
AA

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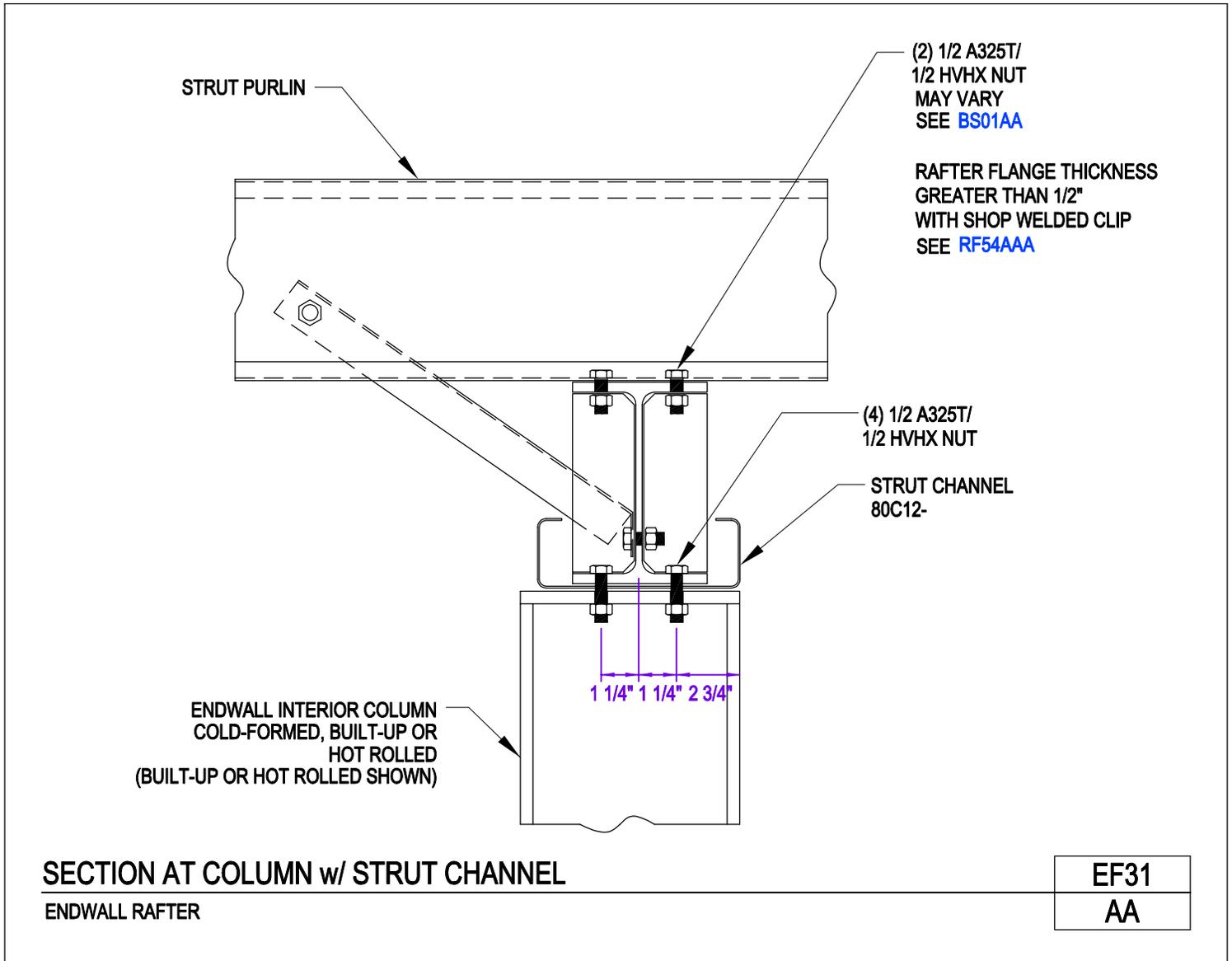
[To Section Index](#)

Endwall Interior Column Connection to Welded Stiffener
Rigid Frame Endwall M-Column Location
EF30/AA



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Section at Column w/ Strut Channel
Endwall Rafter
EF31/AA

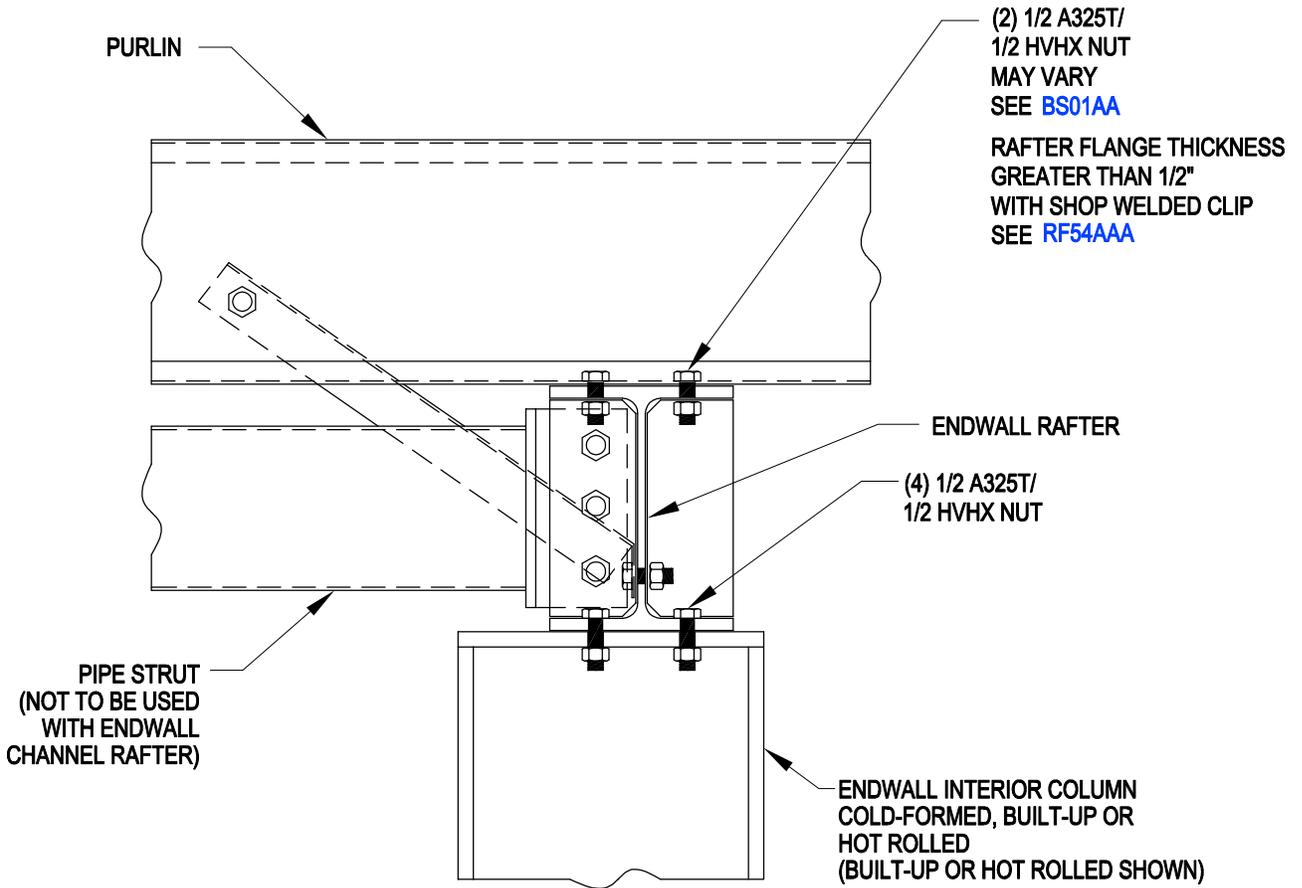


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Section at Endwall Column w/ Pipe Strut

EF32/AA



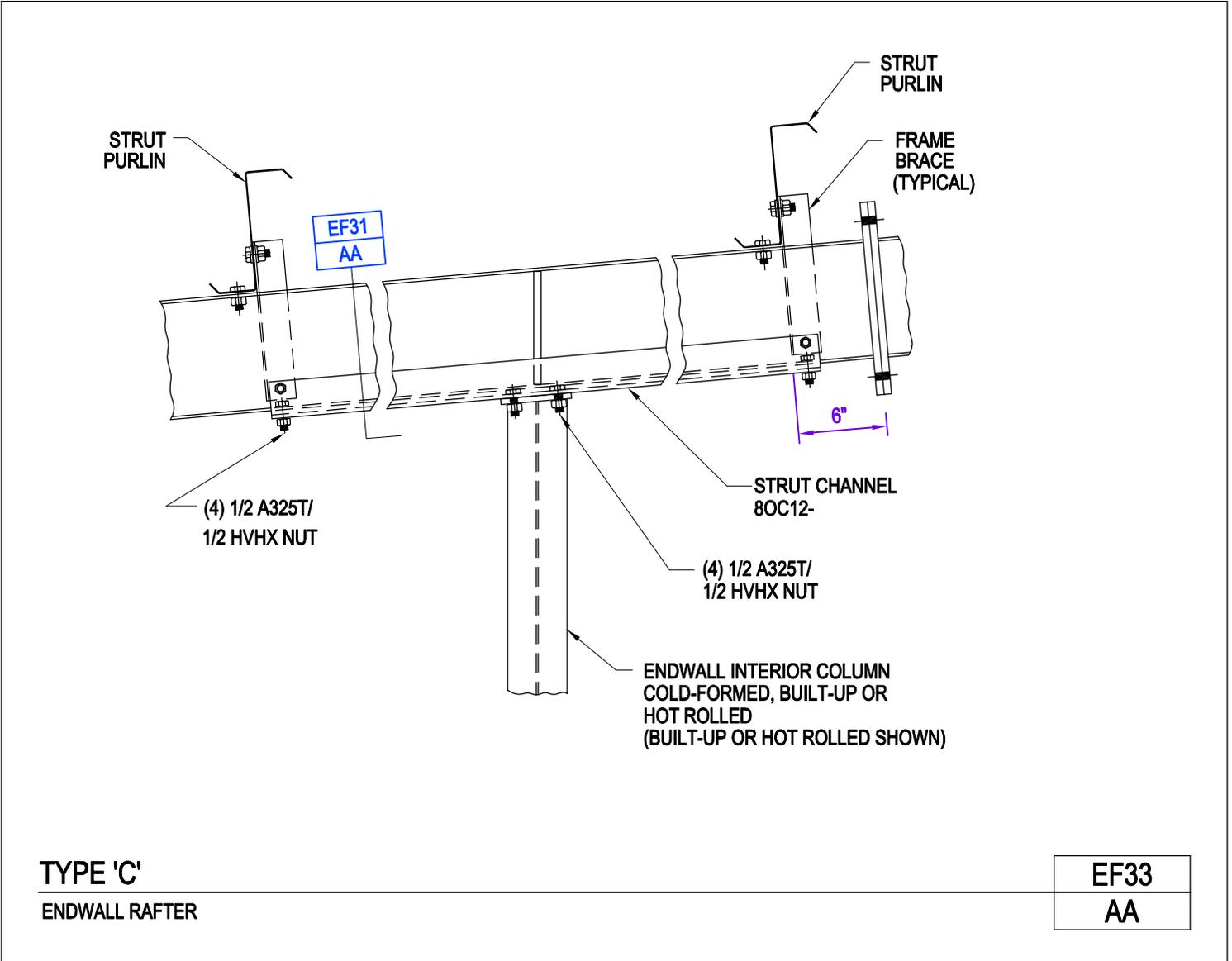
SECTION AT ENDWALL COLUMN w/ PIPE STRUT

| |
|------|
| EF32 |
| AA |

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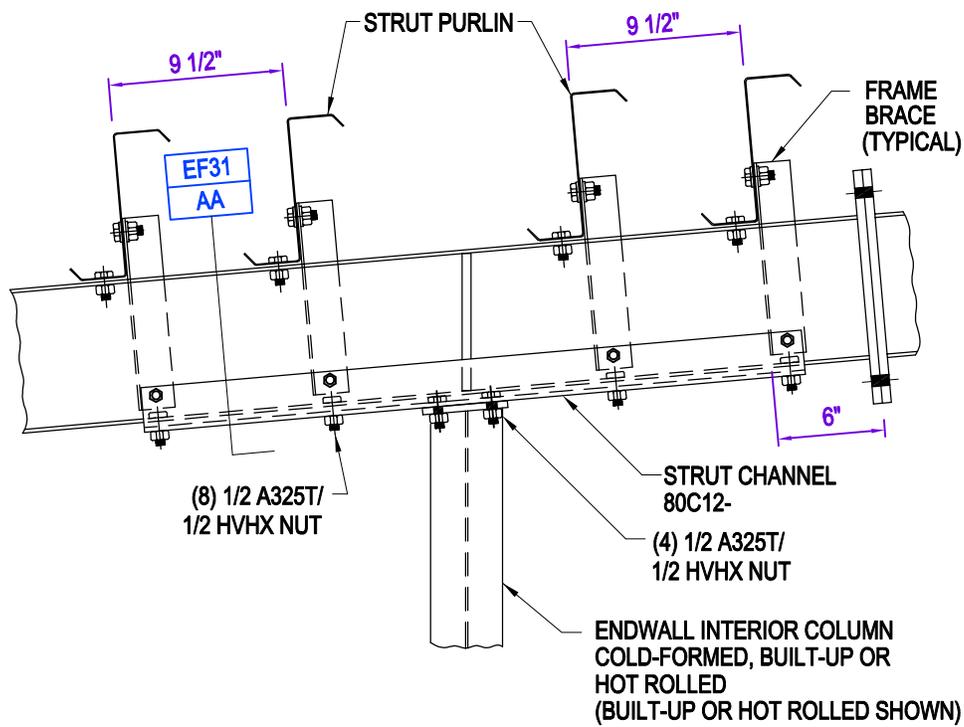
Type 'C'
Endwall Rafter
EF33/AA



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Type 'CS'
Endwall Rafter
EF33A/AA



SEE BR09AA or BA
PURLIN BRACE (IF REQUIRED) NOT SHOWN FOR CLARITY

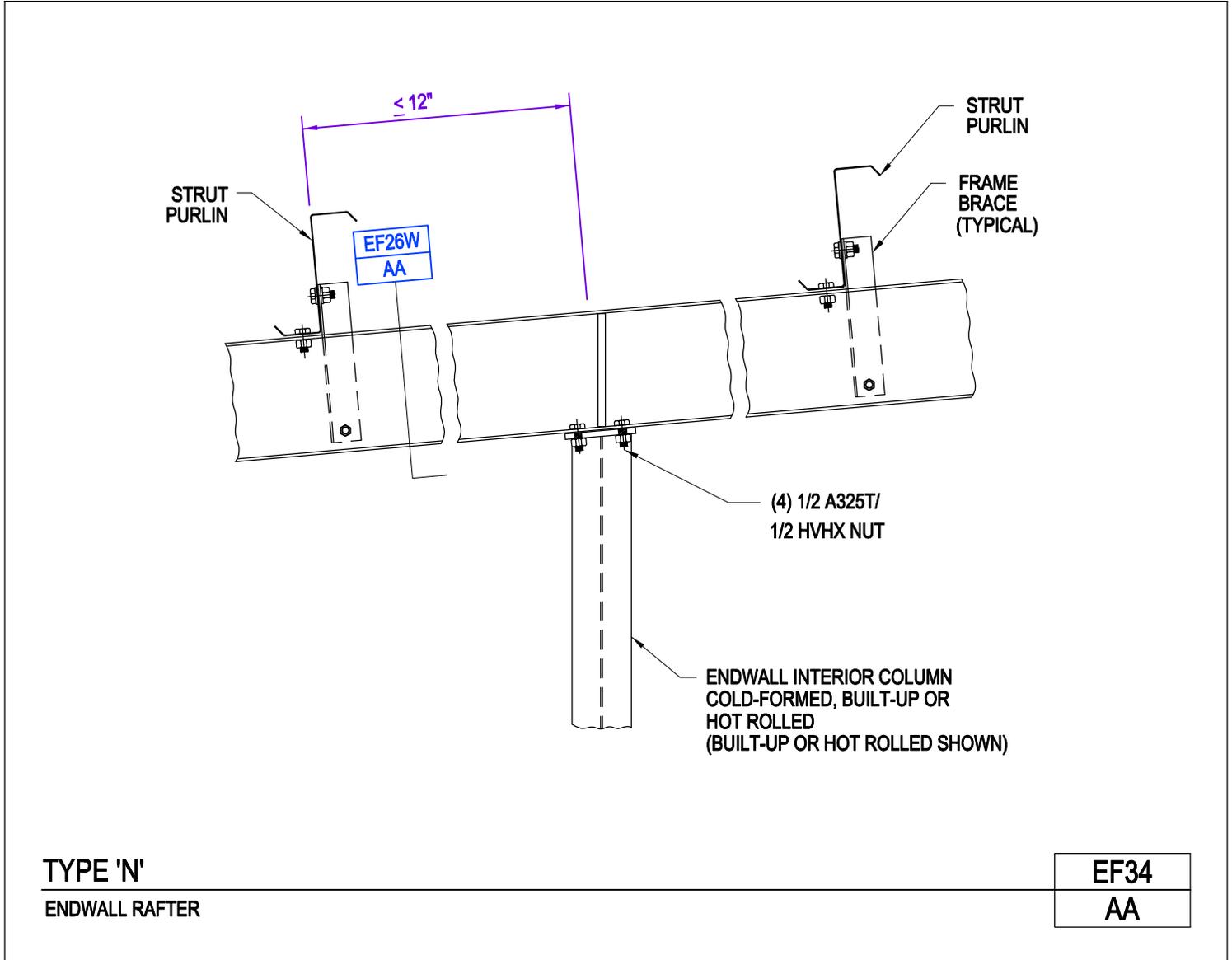
TYPE 'CS'
ENDWALL RAFTER

| |
|--------------|
| EF33A |
| AA |

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Type 'N'
Endwall Rafter
EF34/AA



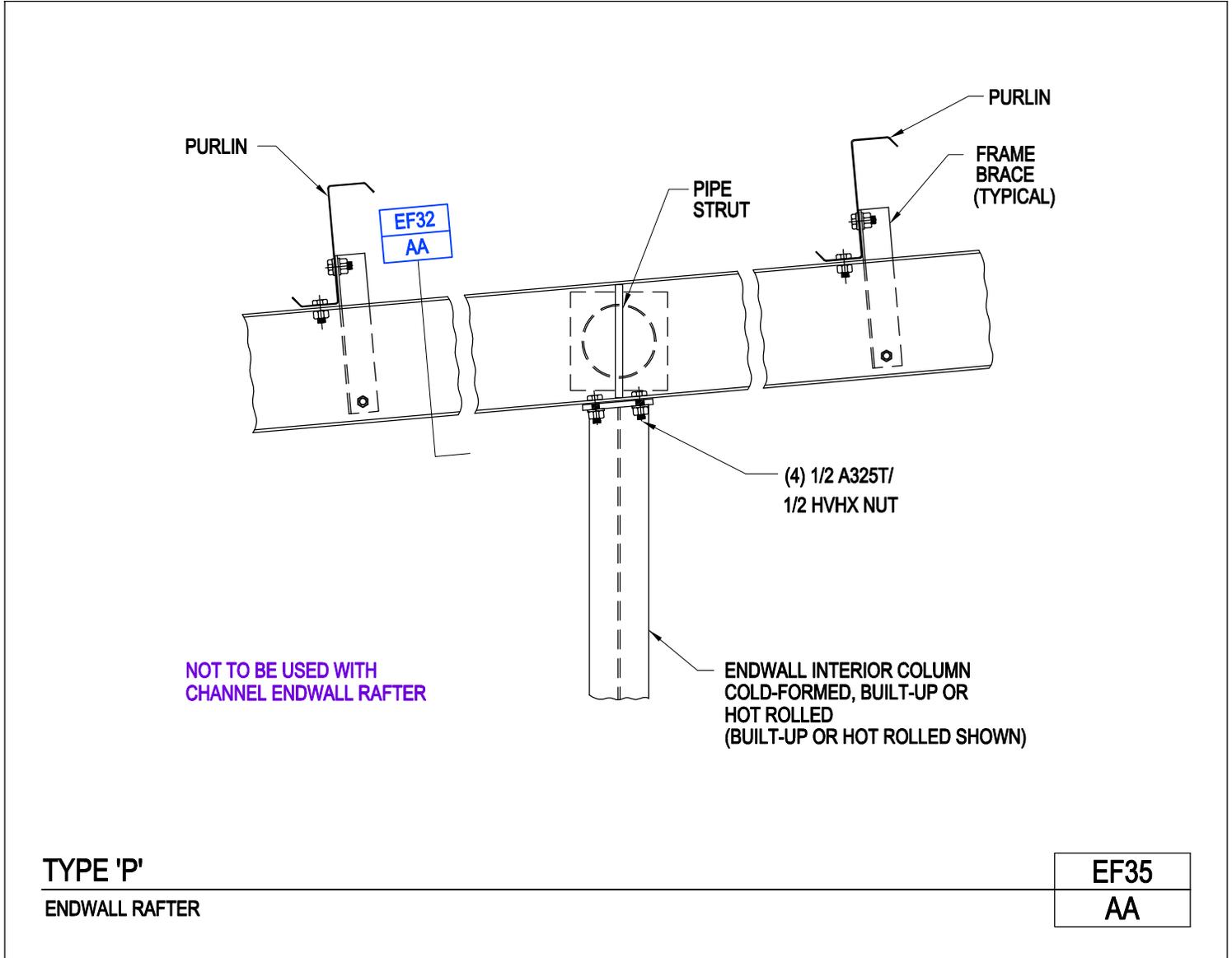
TYPE 'N'
ENDWALL RAFTER

| |
|-------------|
| EF34 |
| AA |

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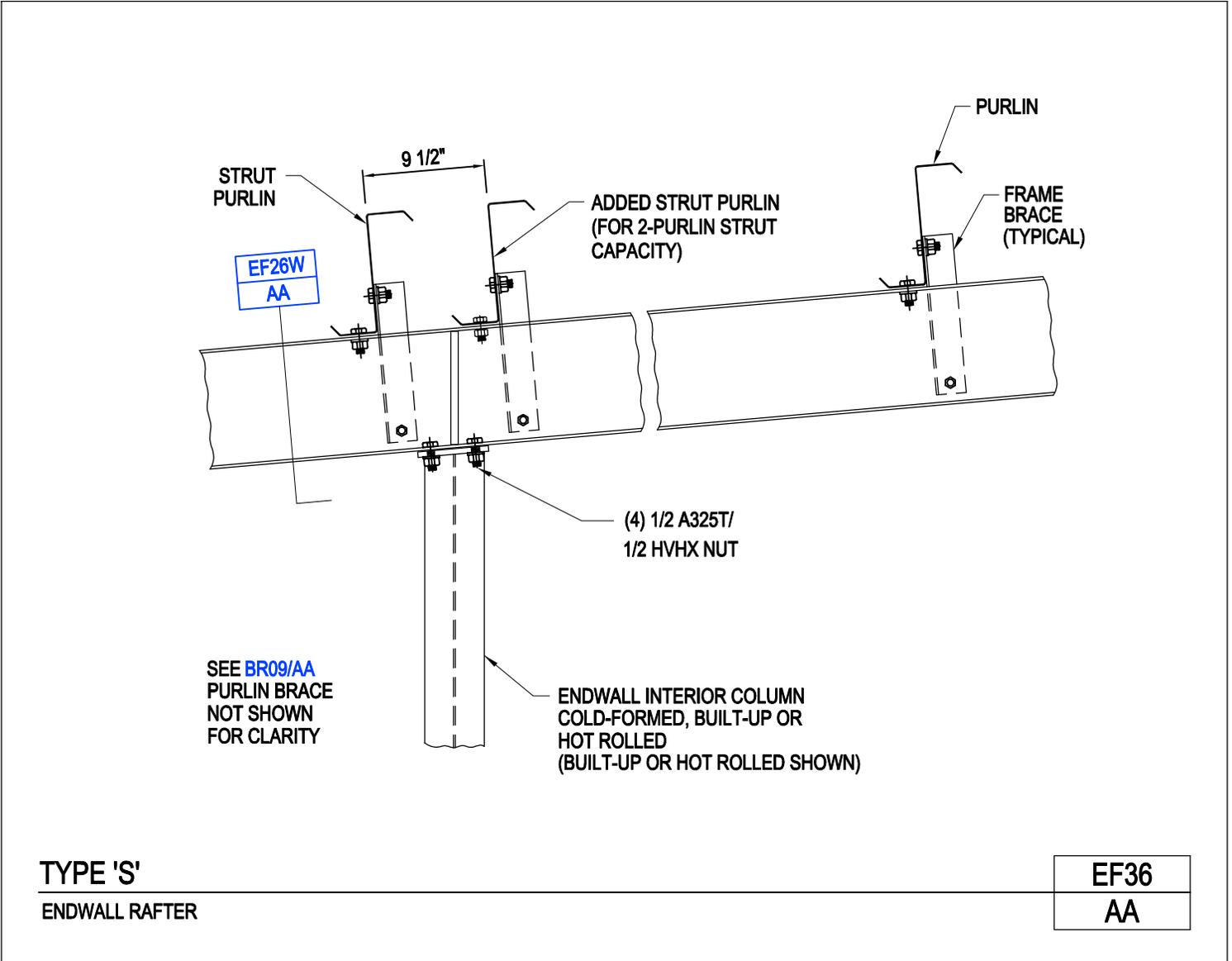
Type 'P'
Endwall Rafter
EF35/AA



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Type 'S'
Endwall Rafter
EF36/AA



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